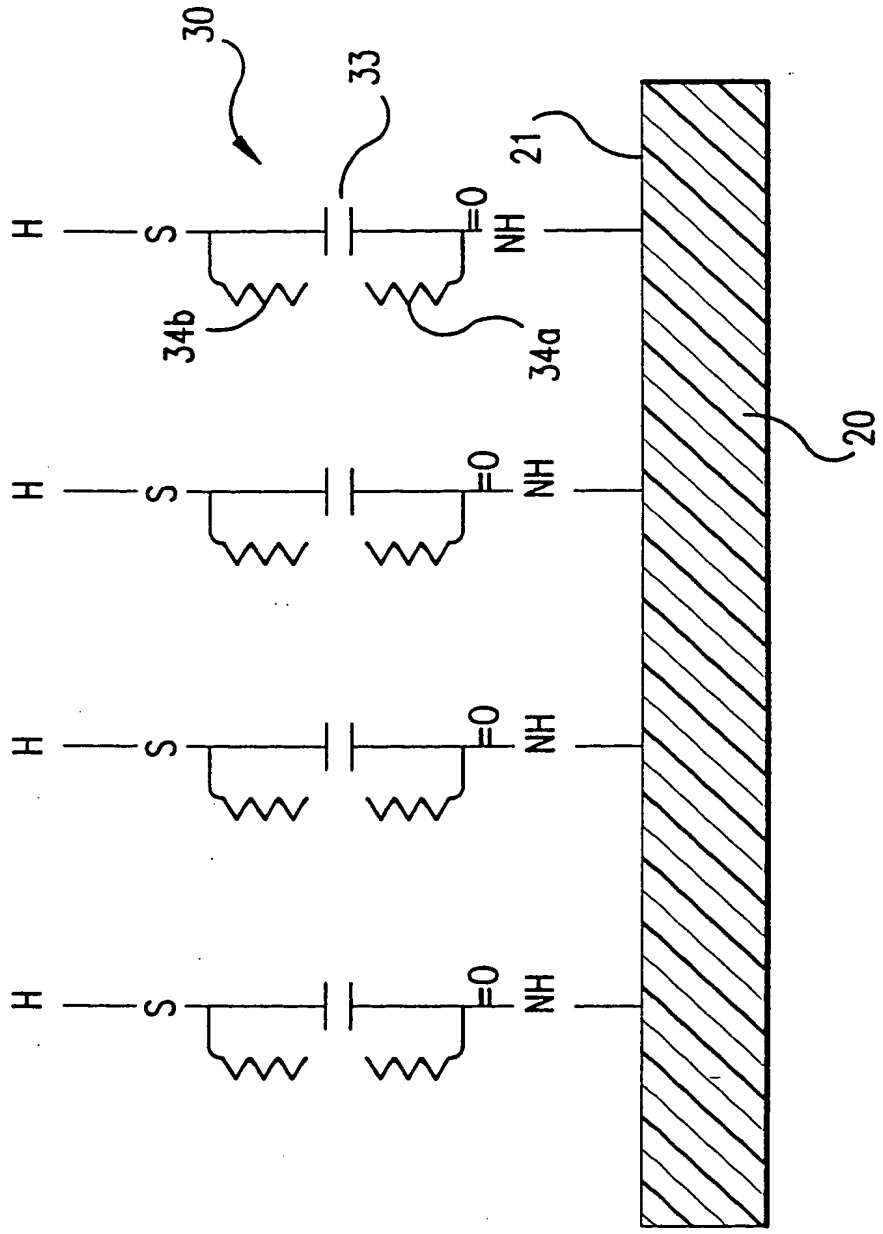



FIG. 1A

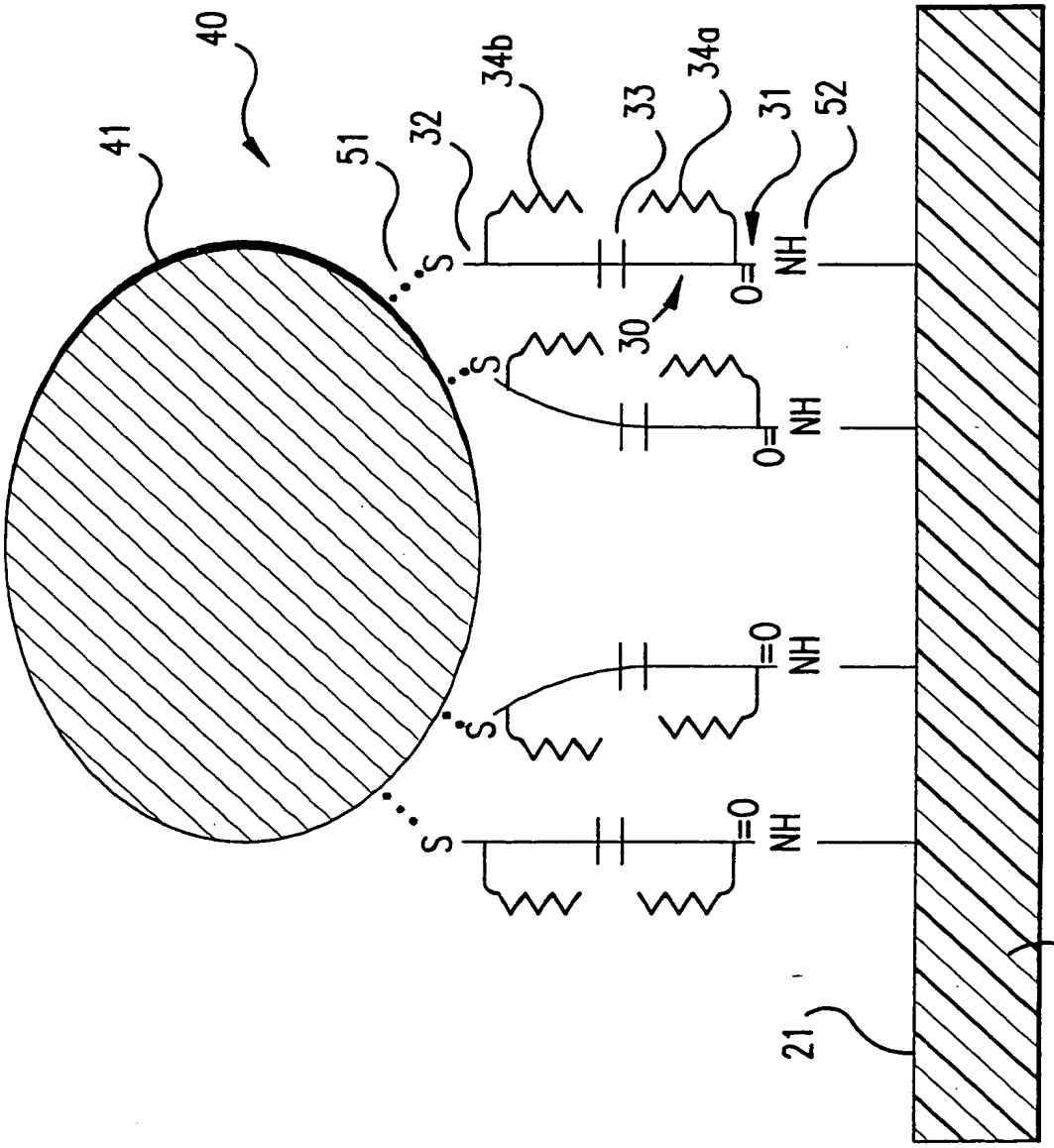



FIG.1B

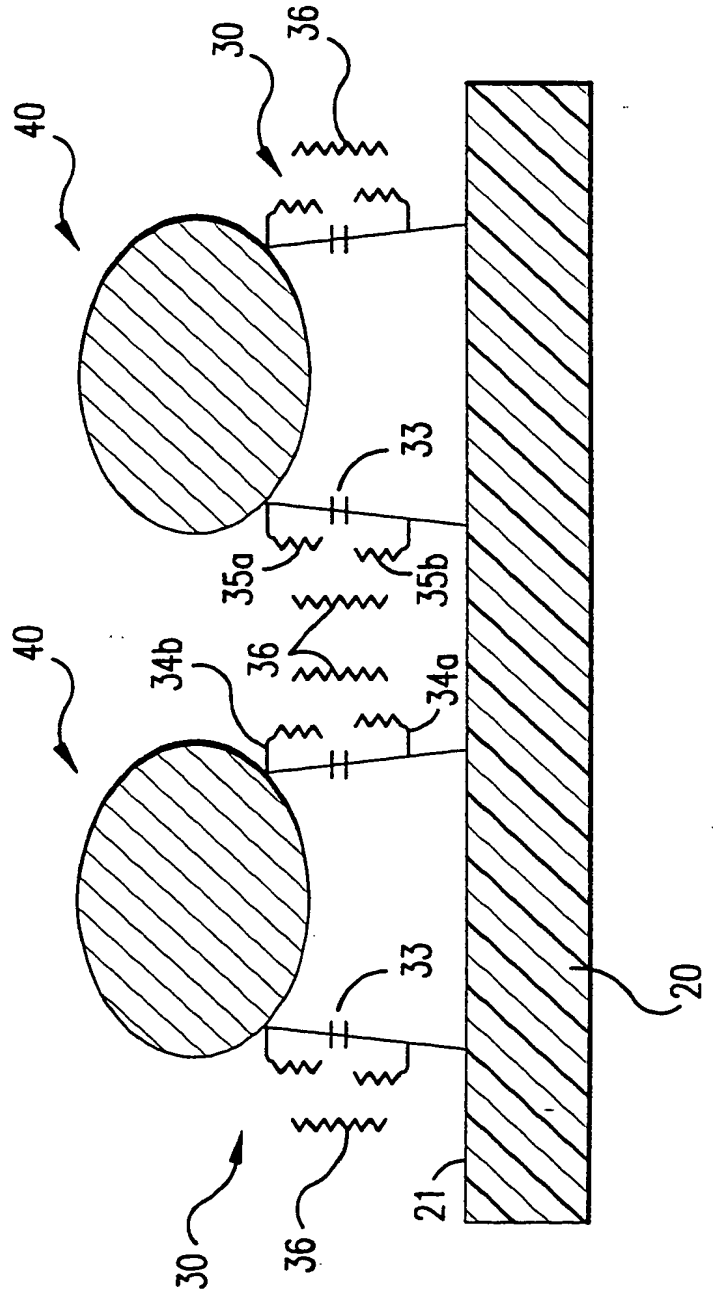



FIG.2A

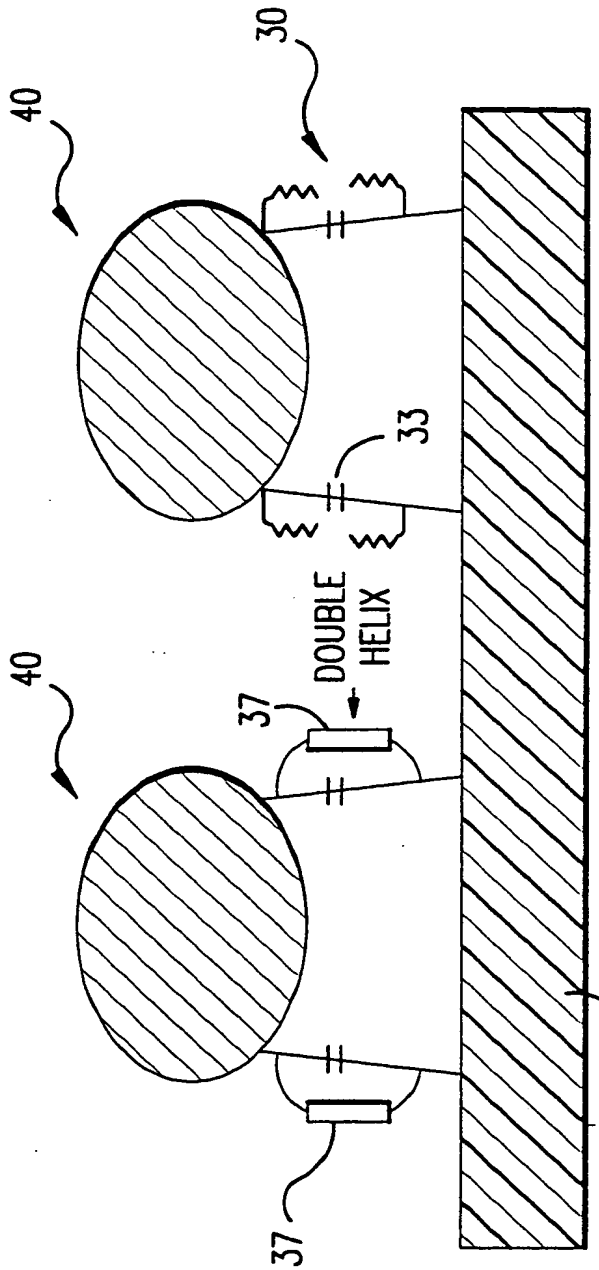



FIG.2B

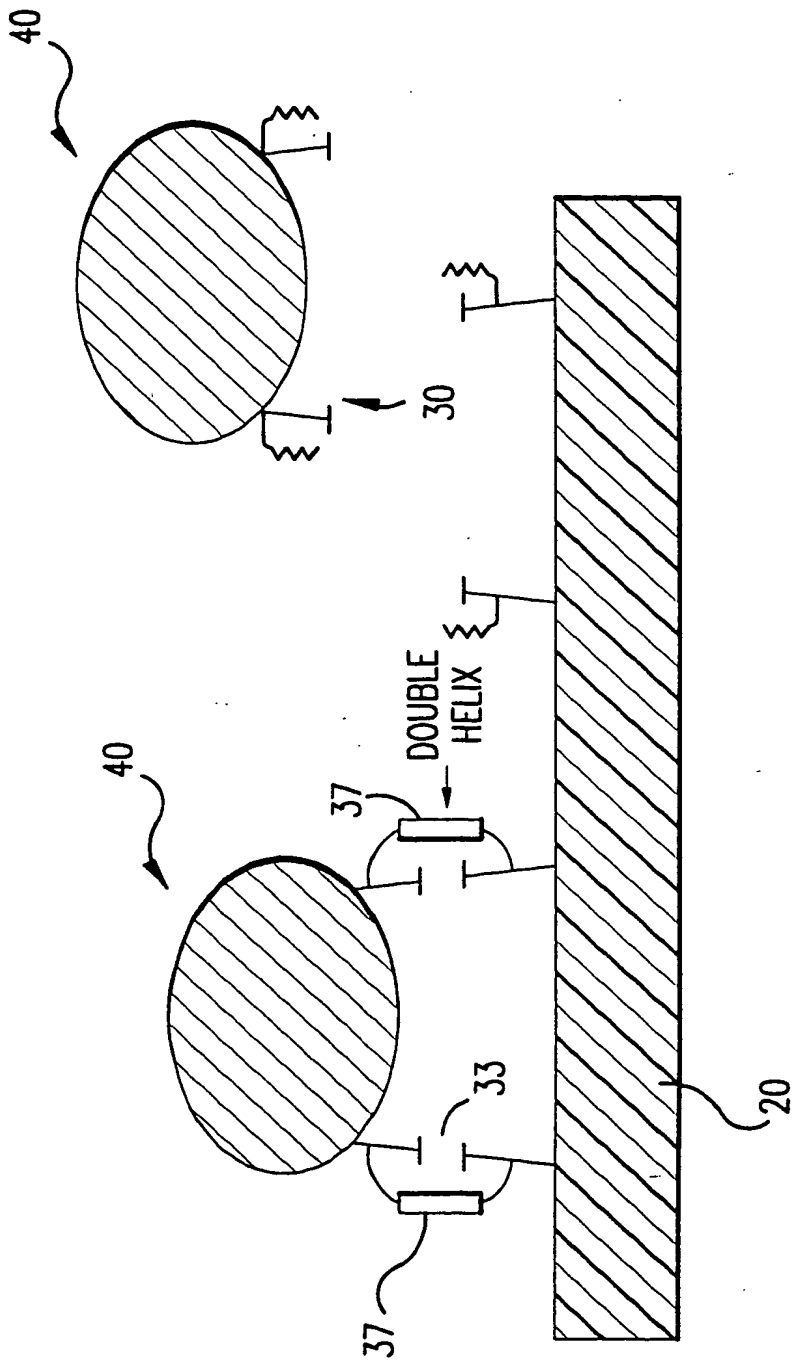



FIG.2C

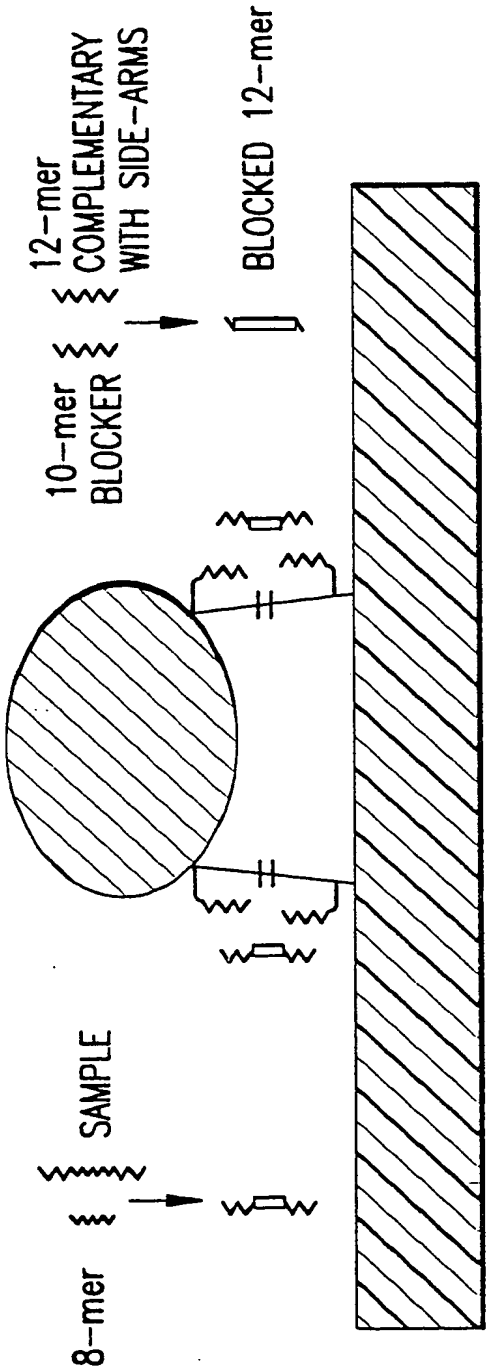

12-mer
COMPLEMENTARY
WITH SIDE-ARMS
BLOCKED 12-mer
10-mer
BLOCKER
SAMPLE
8-mer

FIG.2D

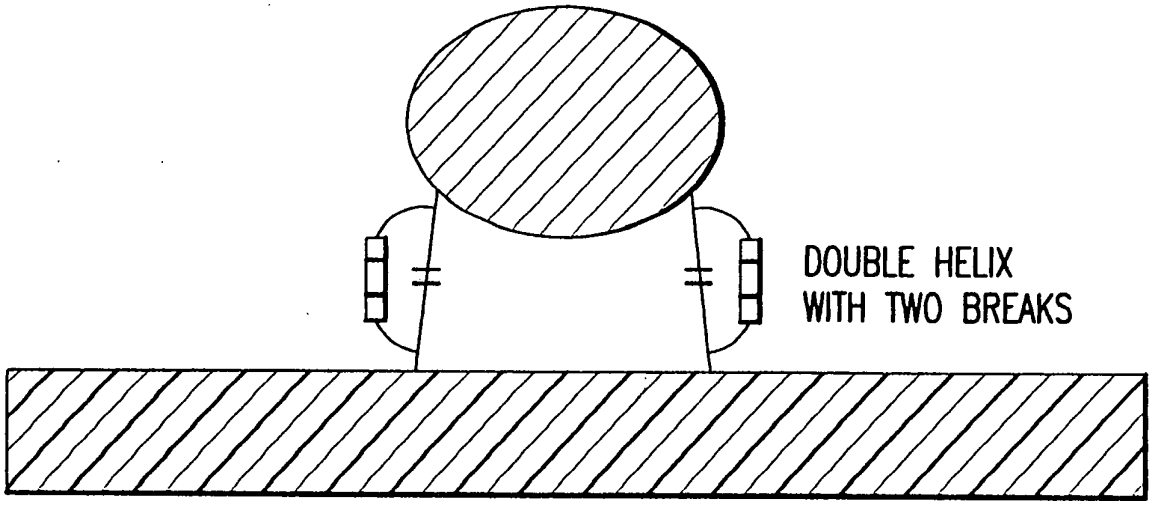

DOUBLE HELIX
WITH TWO BREAKS

FIG.2E

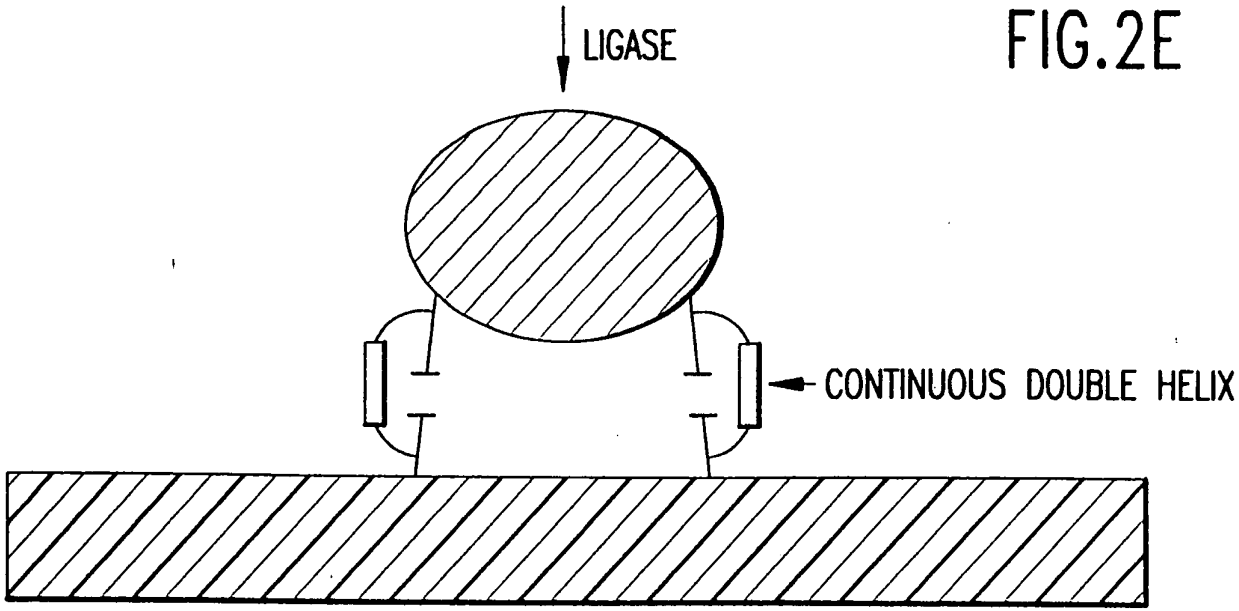

LIGASE
CONTINUOUS DOUBLE HELIX

FIG.2F

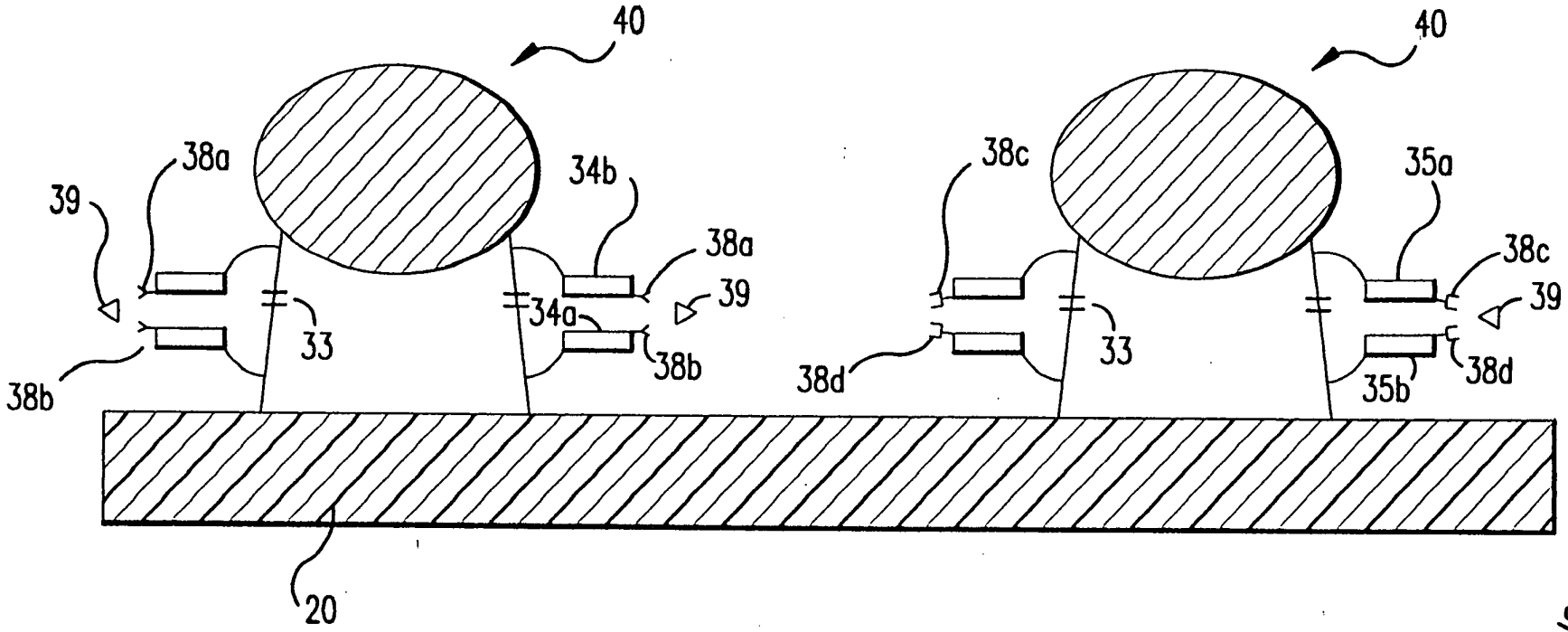

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38a
34b
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38a
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38b
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38c
35a
38c
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38d
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38d
35b
20

FIG.3A

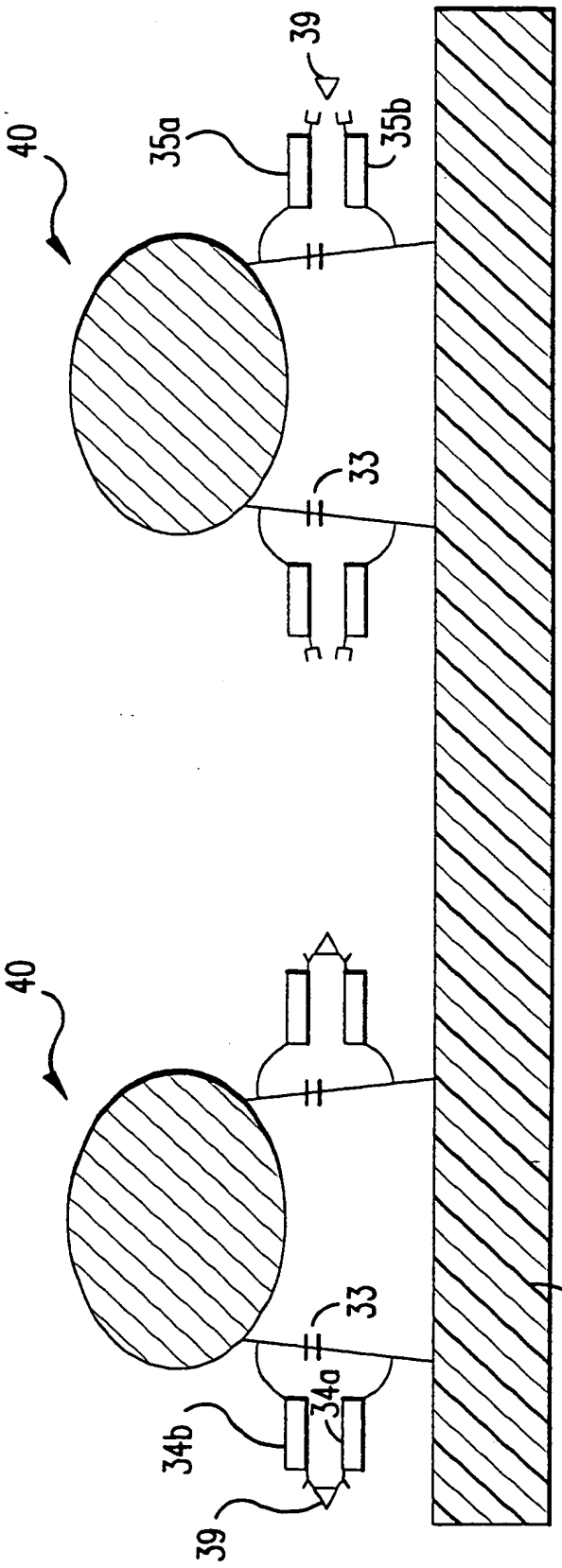



FIG.3B

TOETOT-6T29660

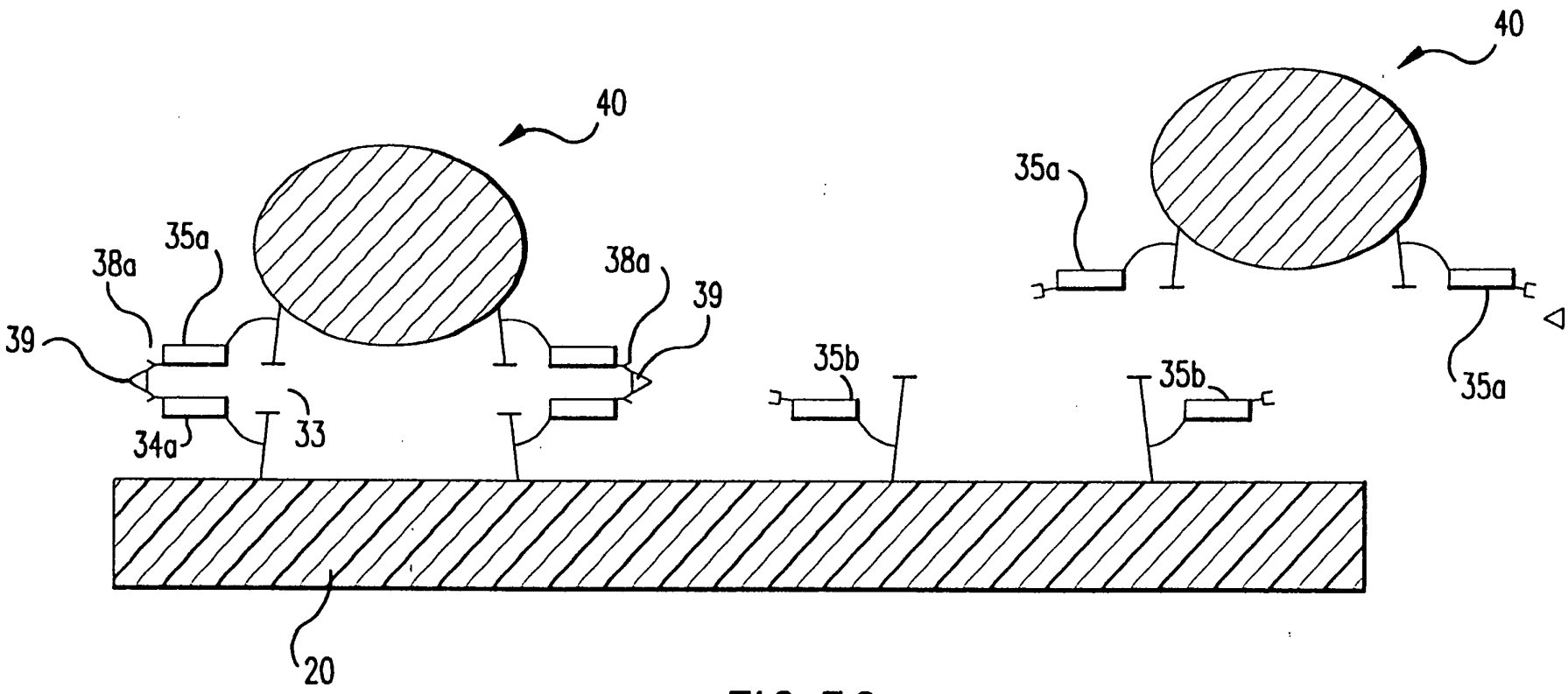



FIG.3C

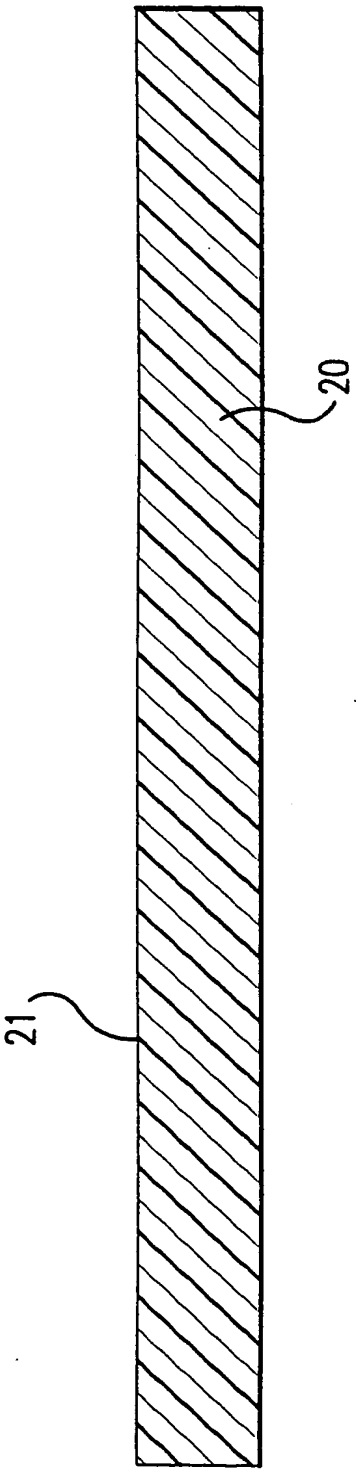



FIG.4A

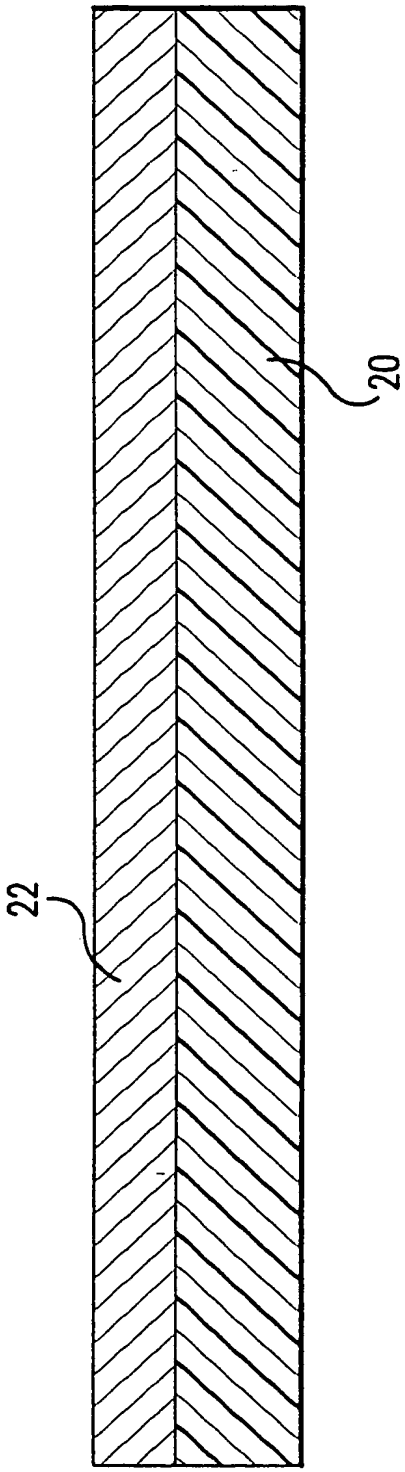



FIG.4B

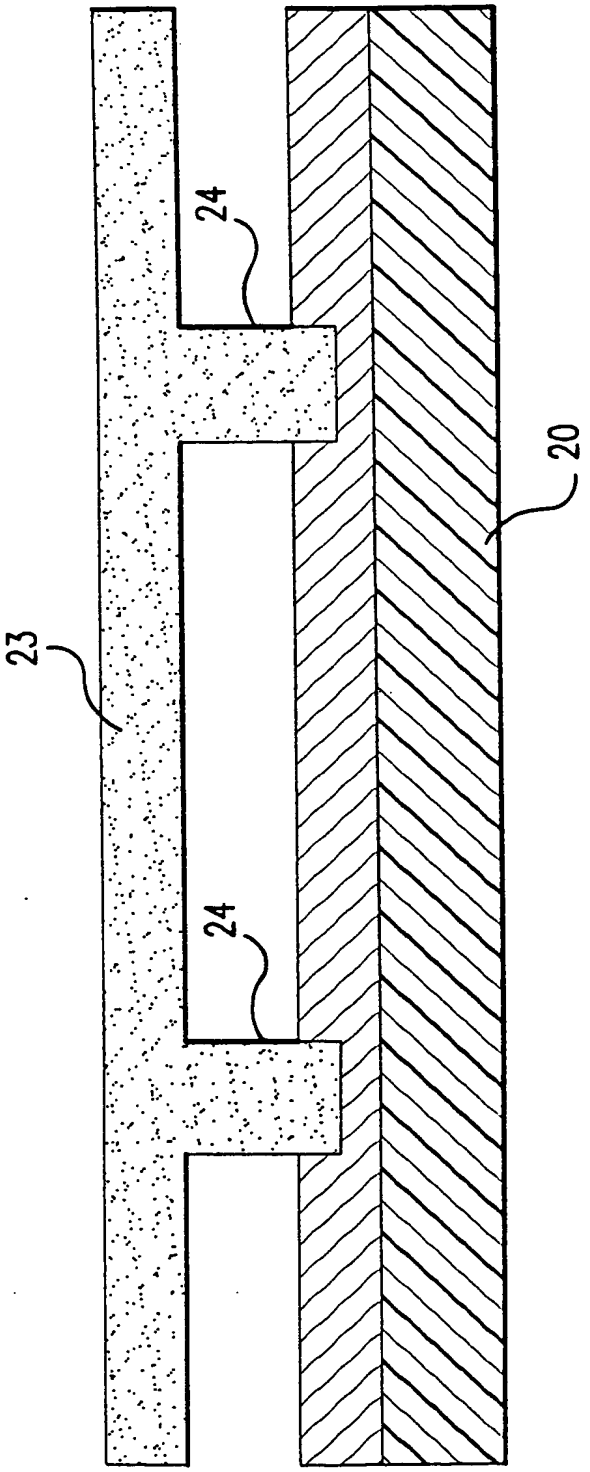



FIG.4C

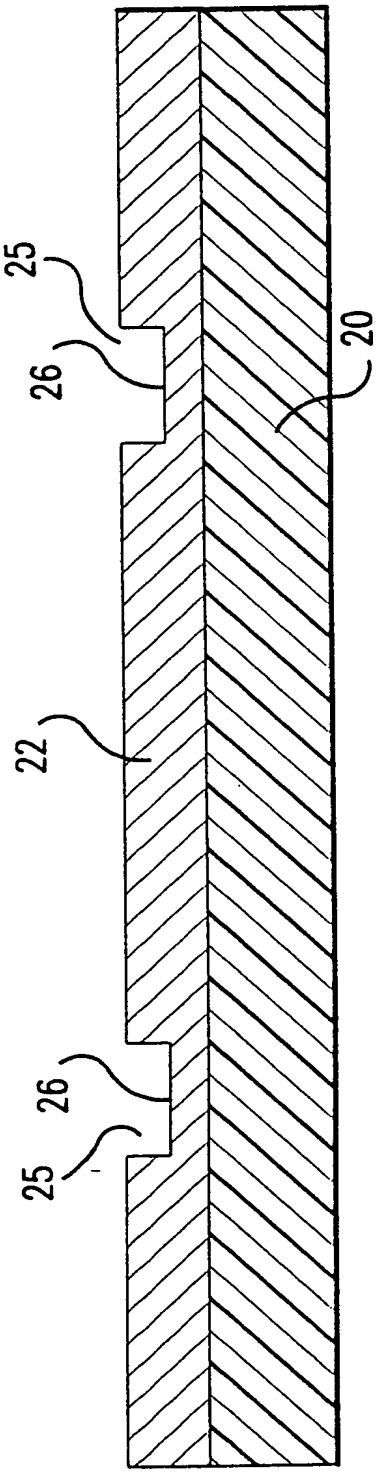



FIG.4D

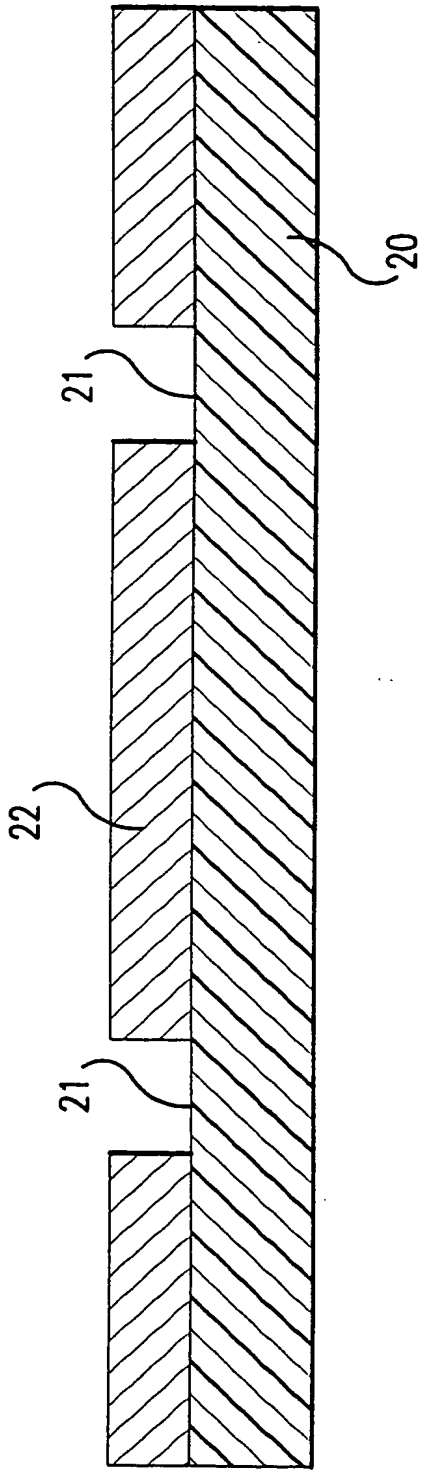



FIG.4E

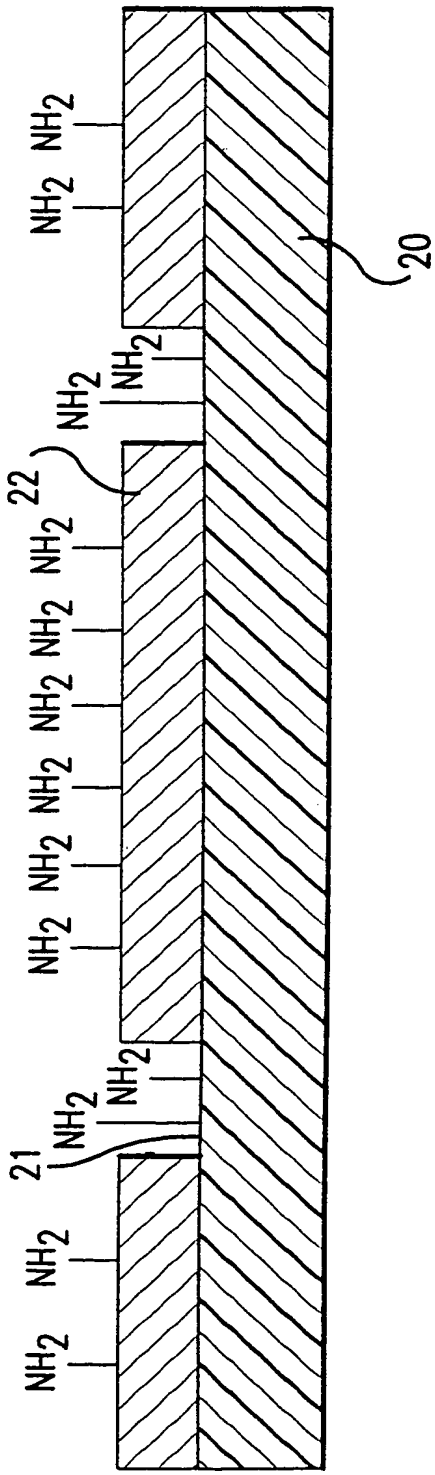



FIG.4F

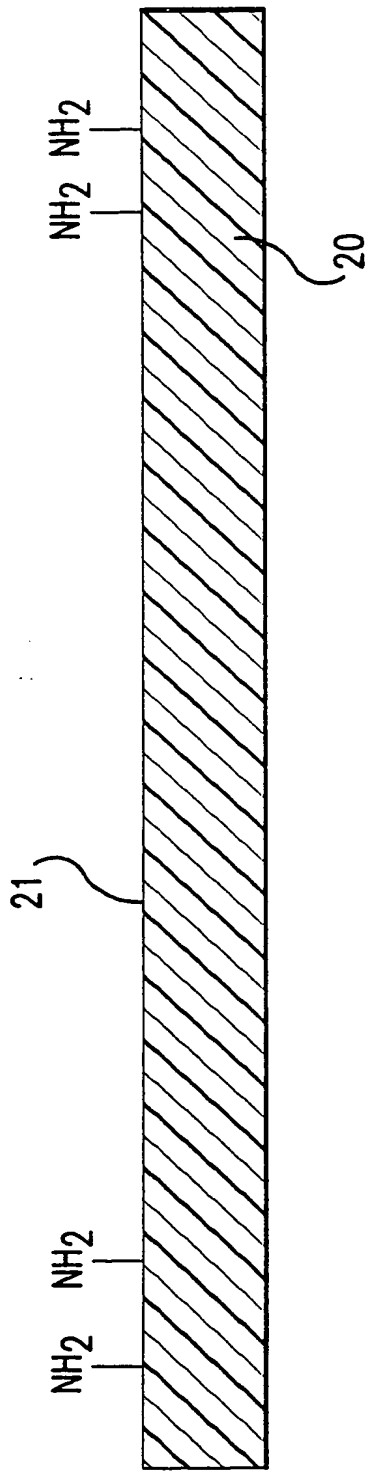



FIG.4G

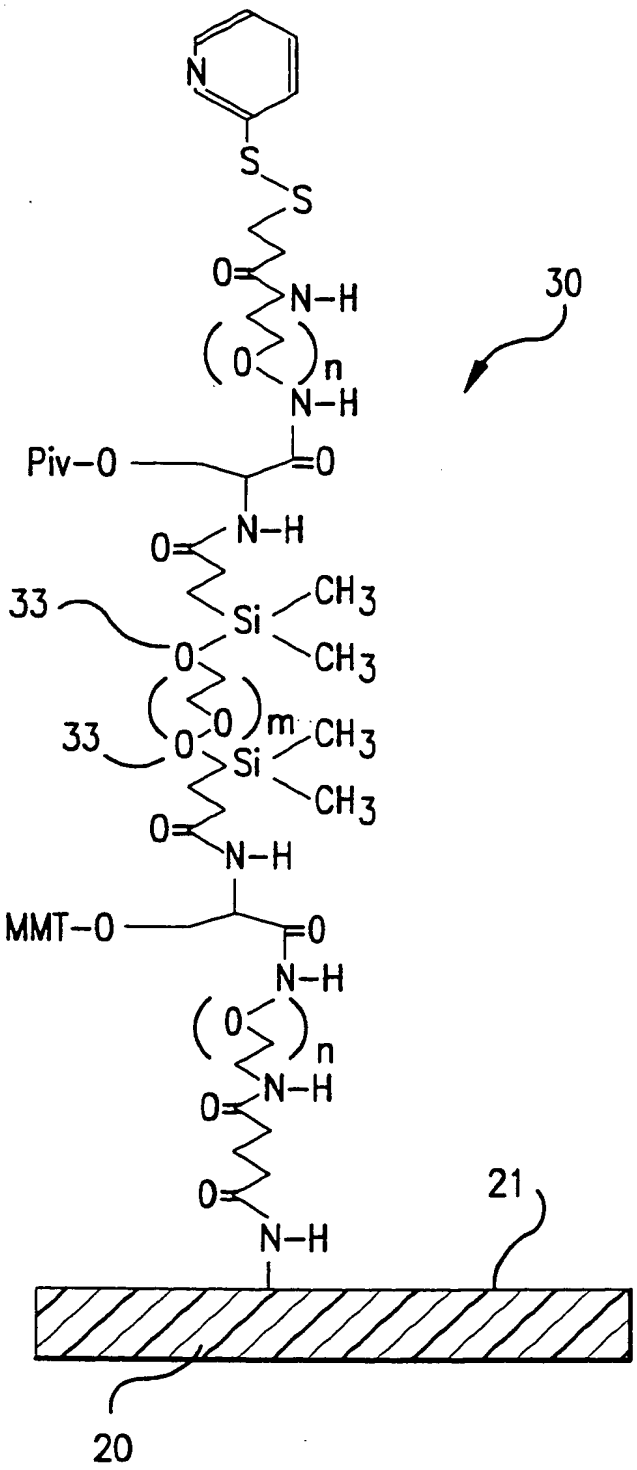

N
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Piv–O
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Si
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N–H
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FIG.5

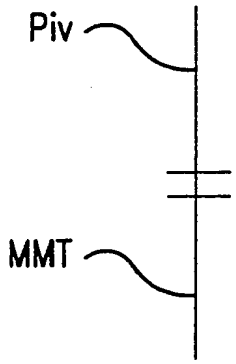

Piv
MMT

FIG.6

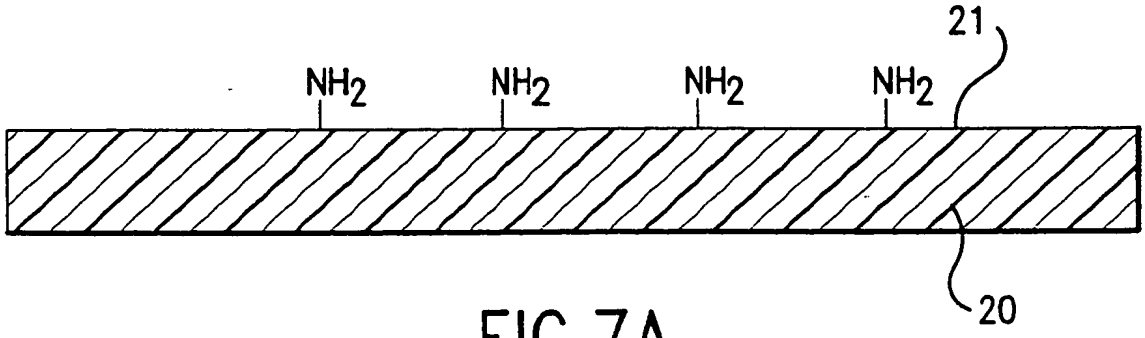



FIG.7A

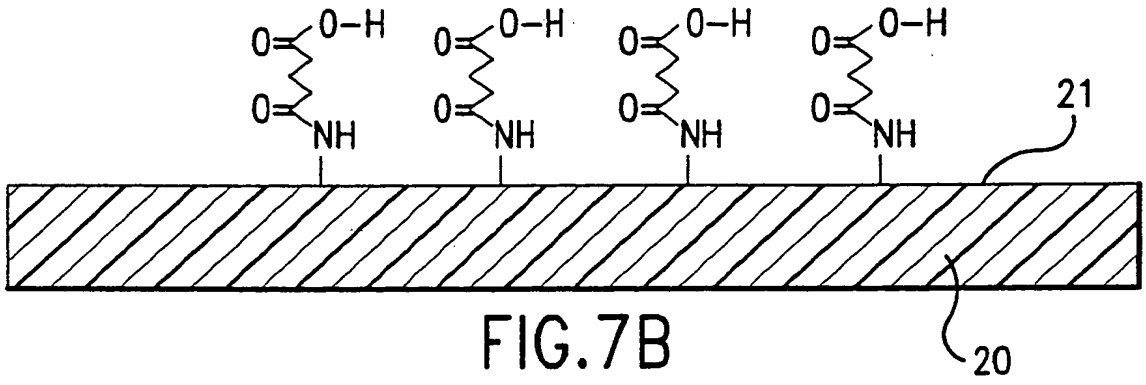



FIG.7B

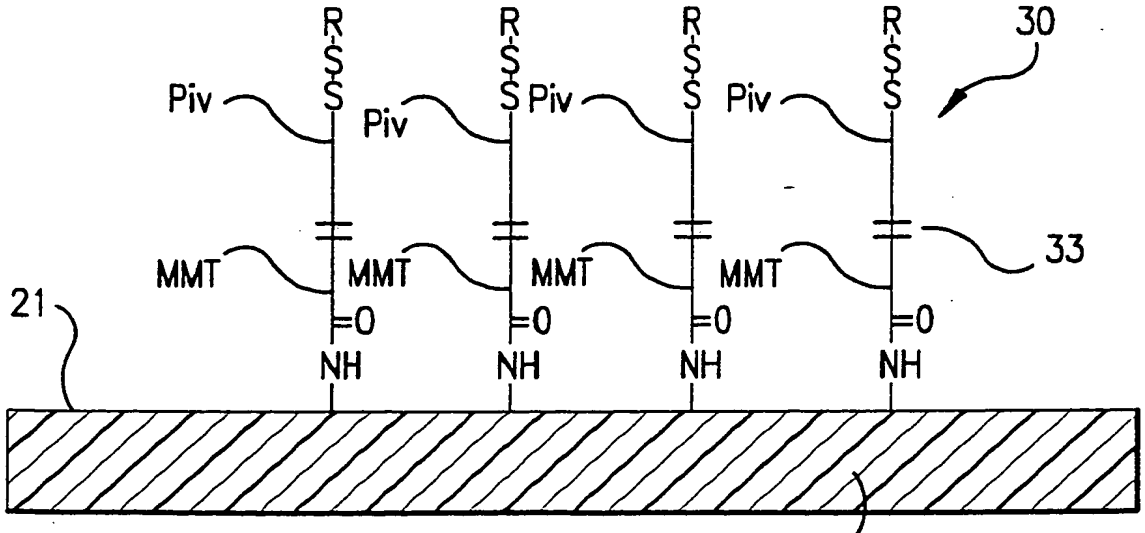



FIG.7C

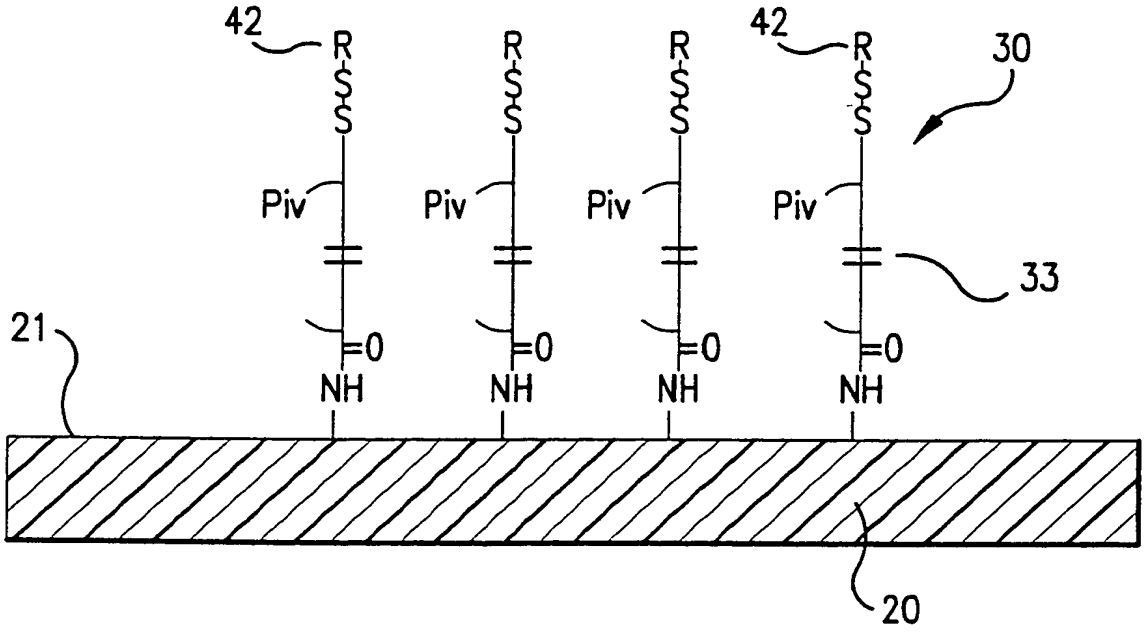



FIG.8A

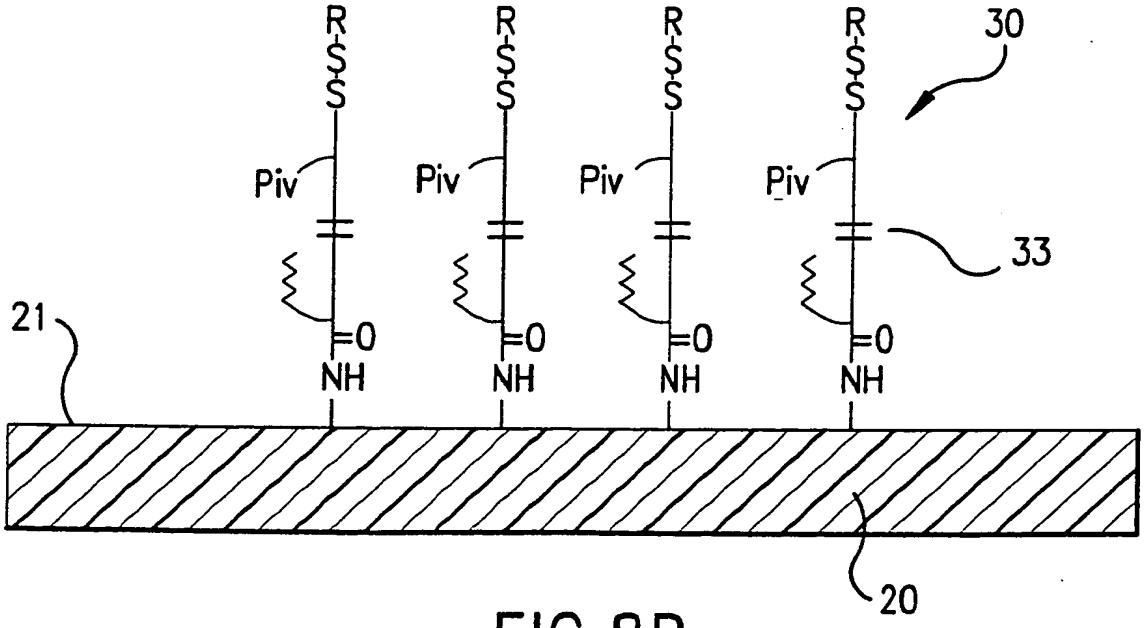



FIG.8B

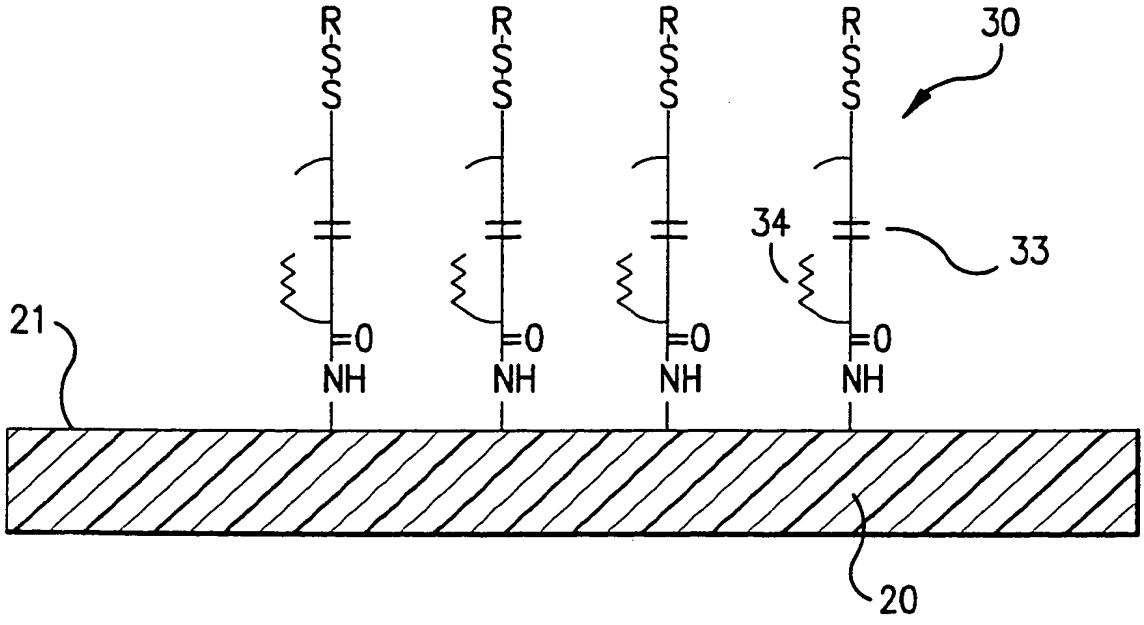



FIG.9A

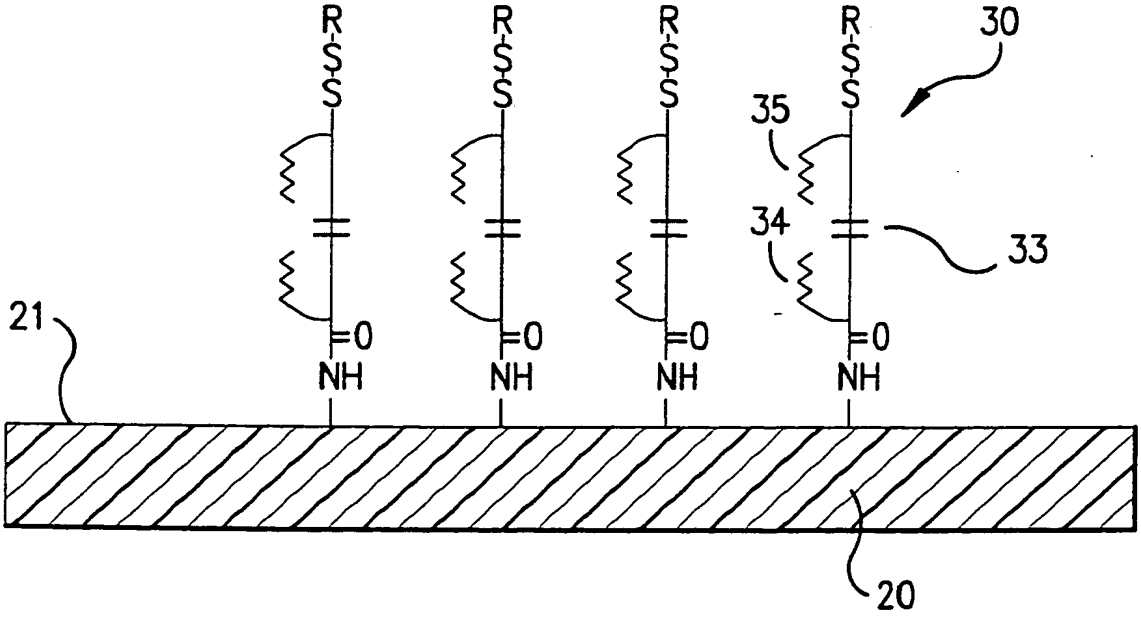



FIG.9B

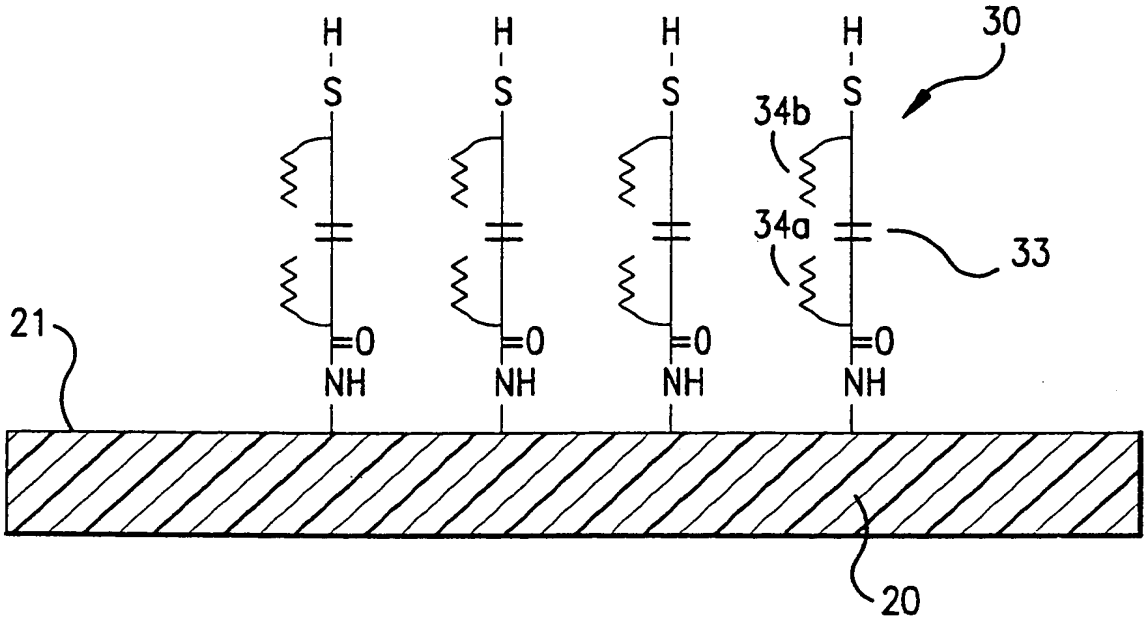



FIG.10A

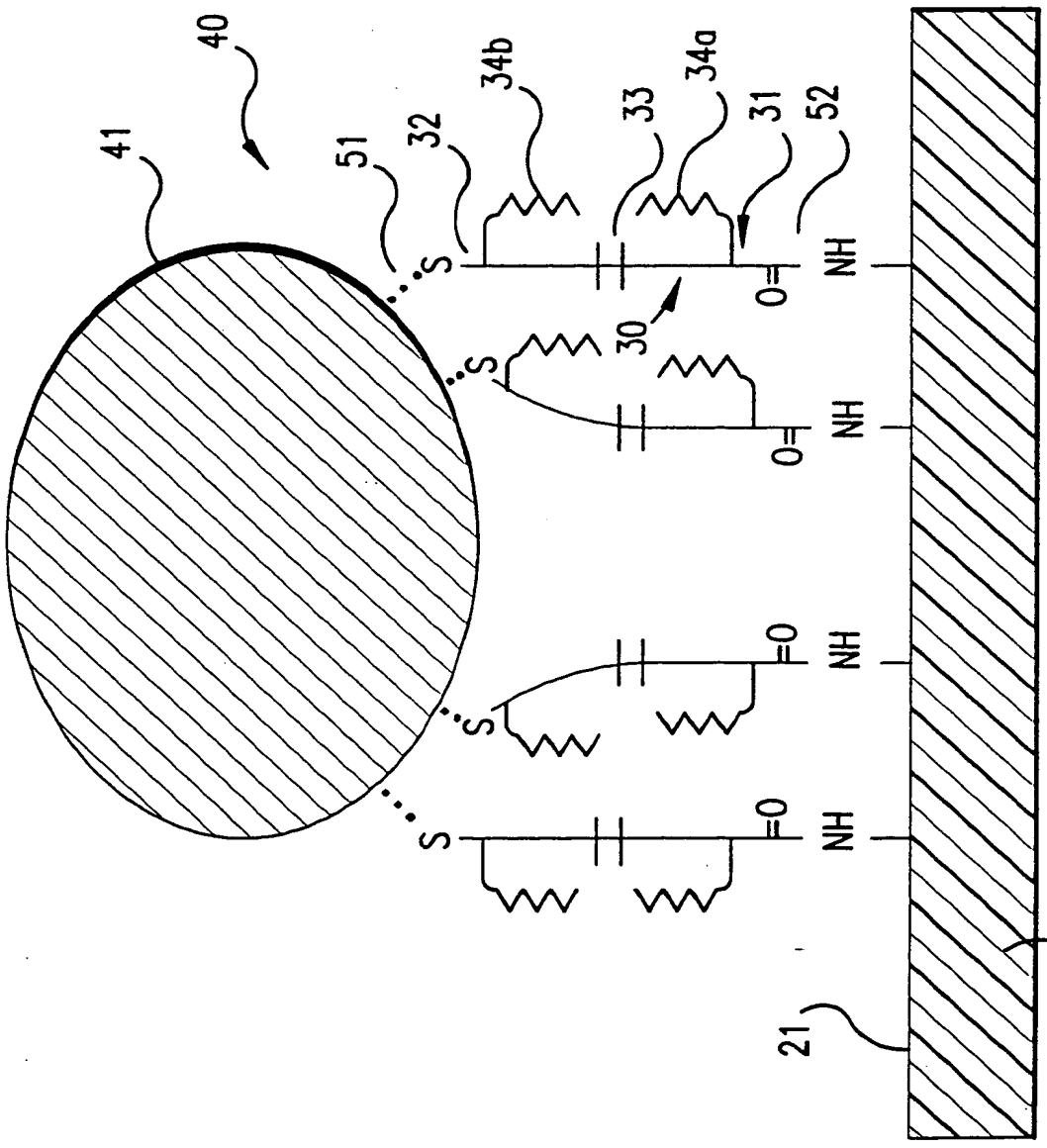



FIG.10B

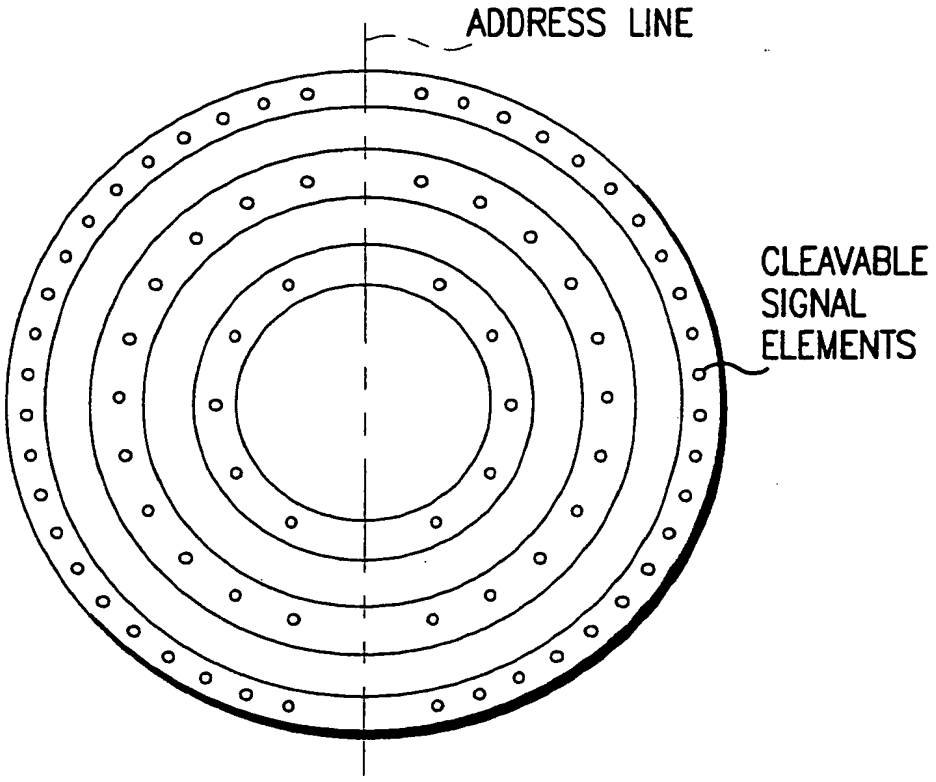



FIG. 11A

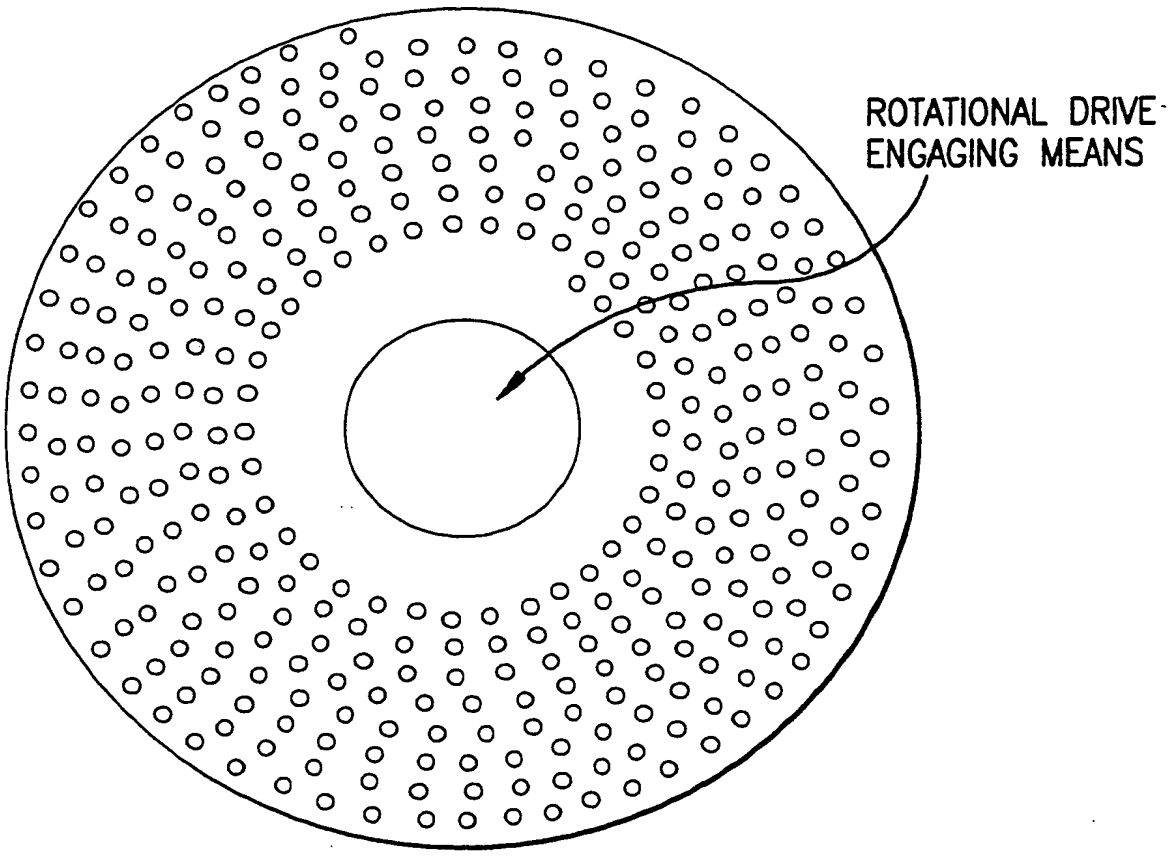



FIG.11B

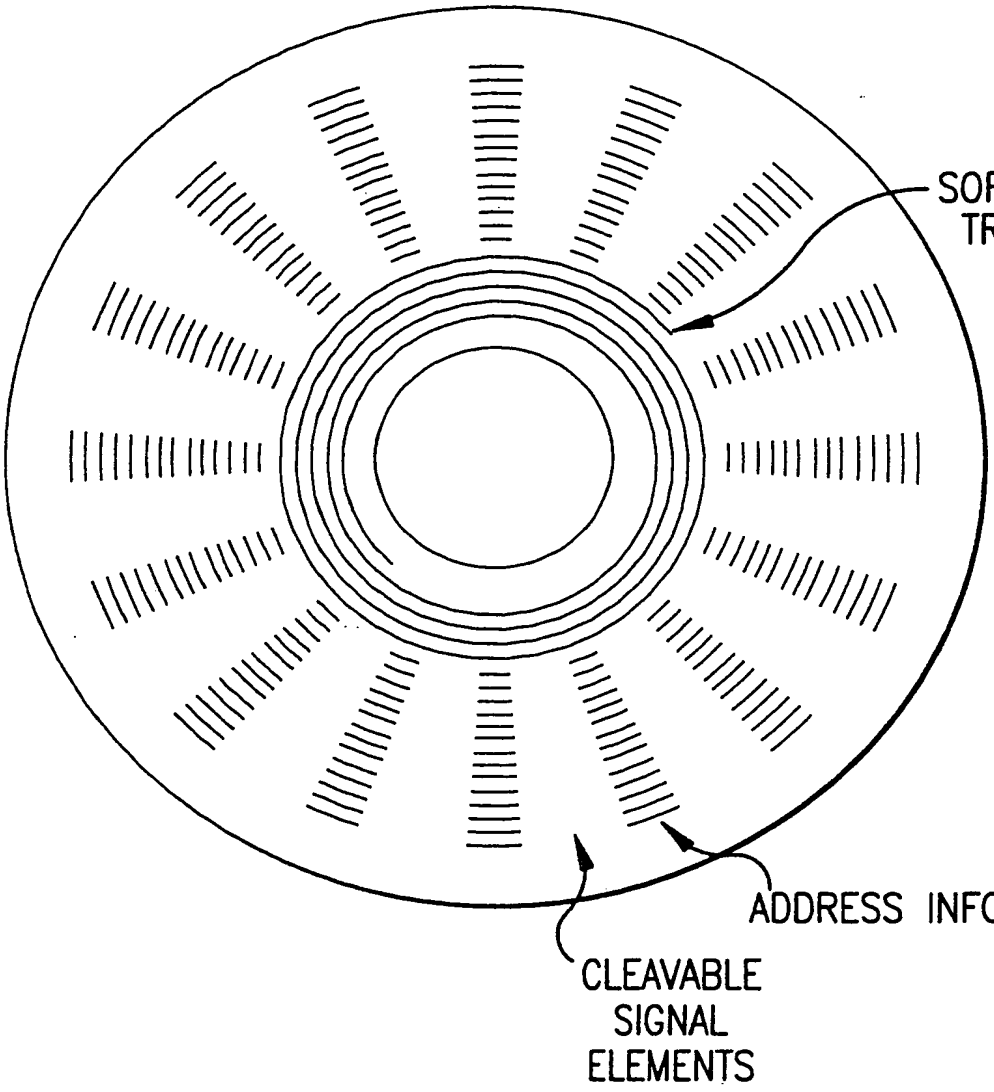

SOFTWARE TRACKS
ADDRESS INFORMATION
CLEAVABLE SIGNAL ELEMENTS

FIG.11C

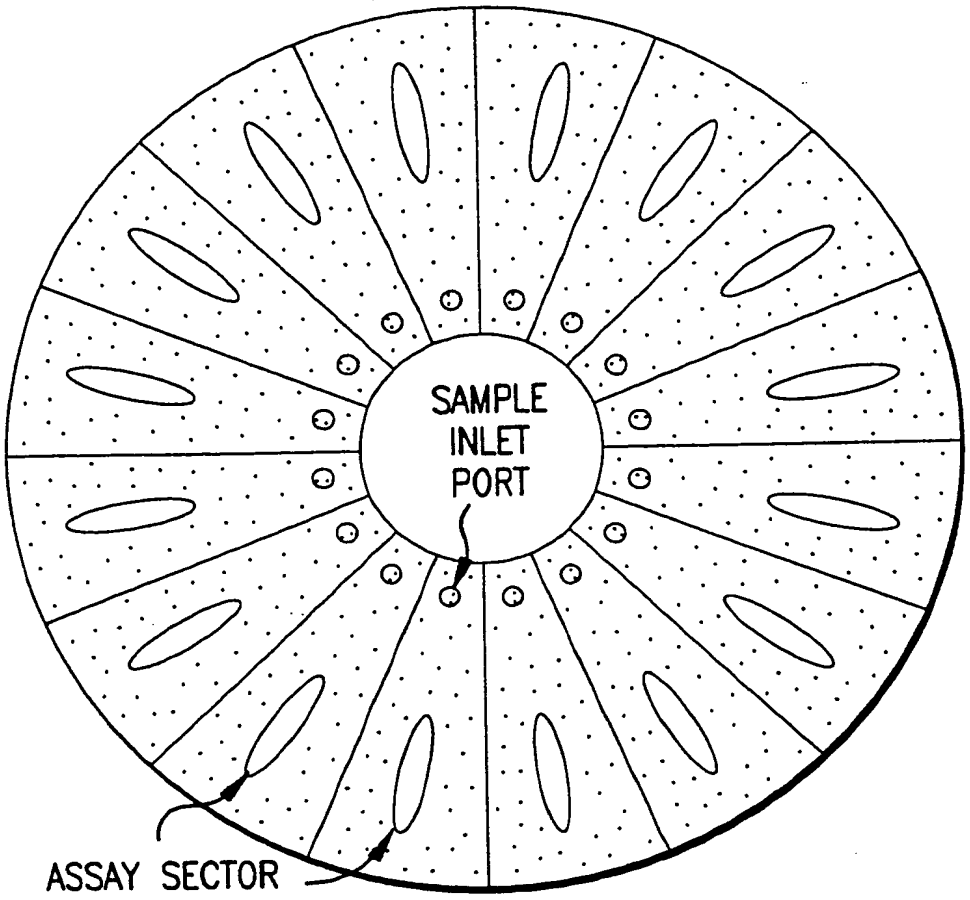



FIG.11D

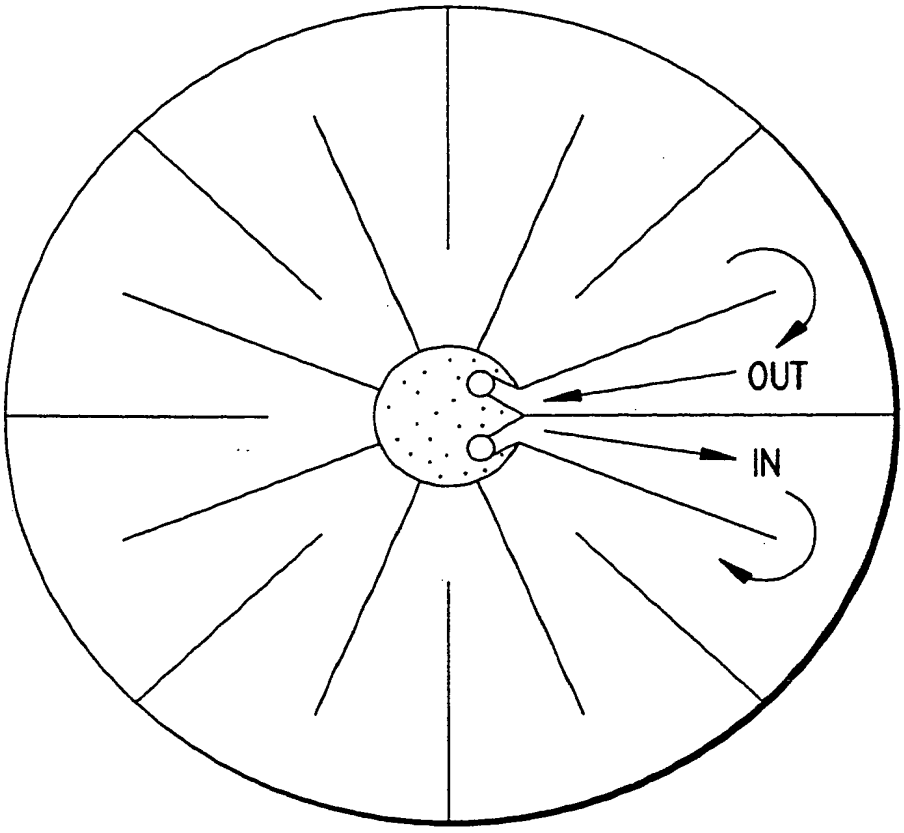



FIG.11E

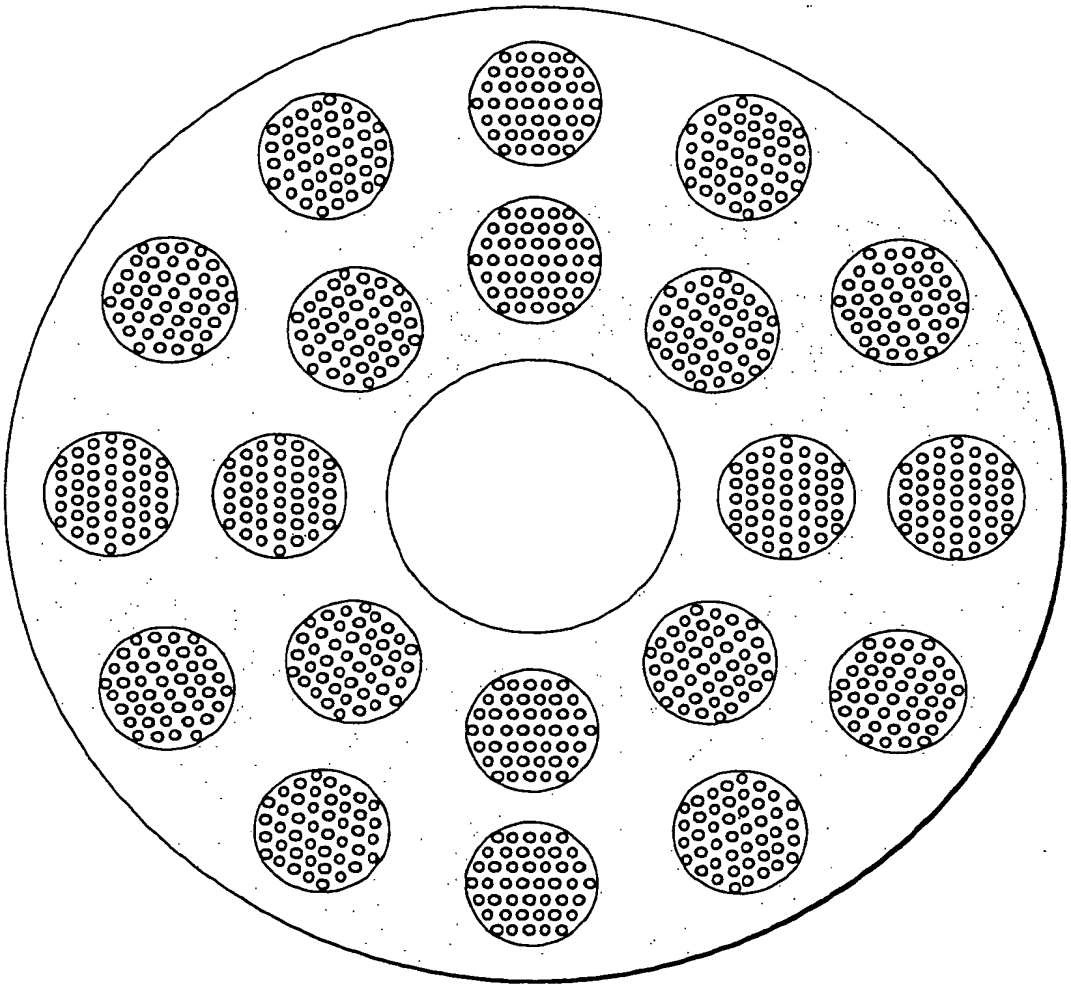


FIG.11F

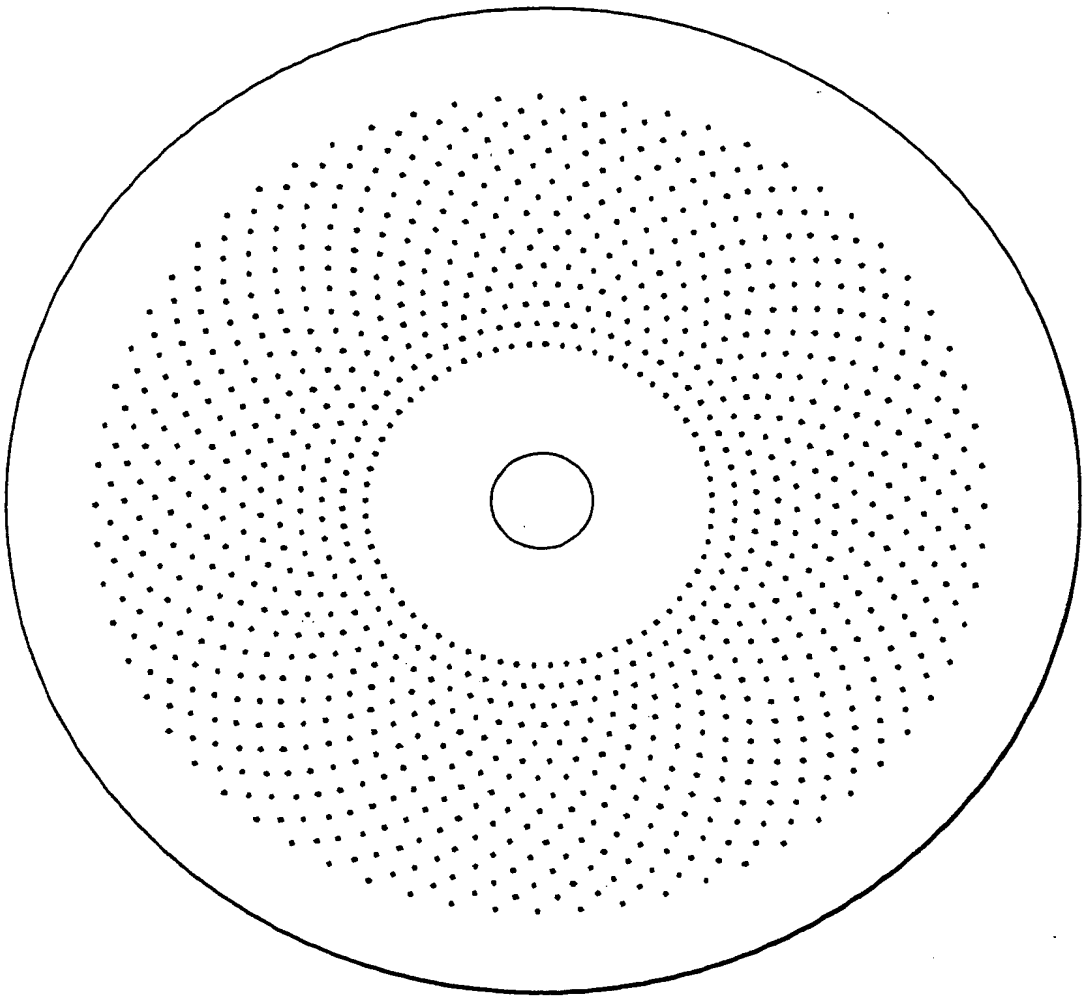


FIG.11G

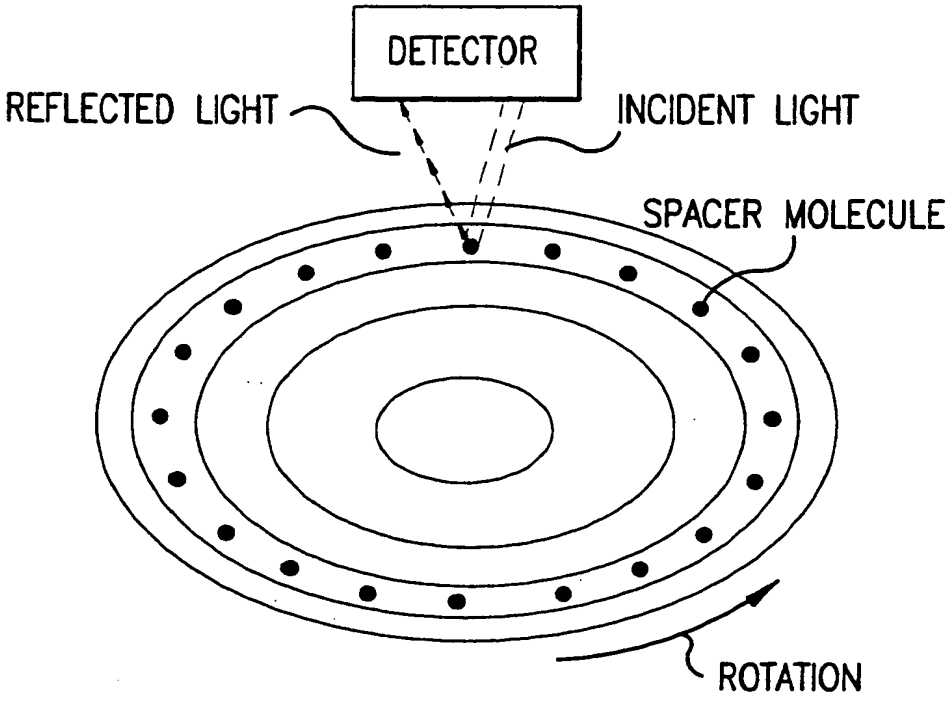

DETECTOR
REFLECTED LIGHT
INCIDENT LIGHT
SPACER MOLECULE
ROTATION

FIG.12

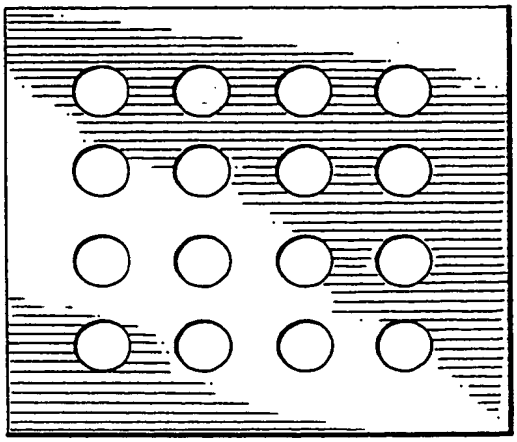


FIG.13A

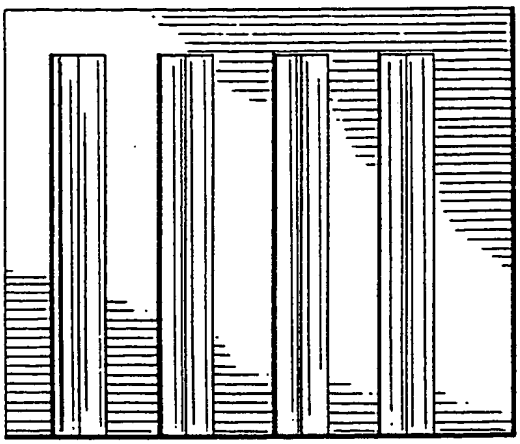


FIG.13C

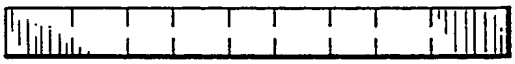


FIG.13B



FIG.13D

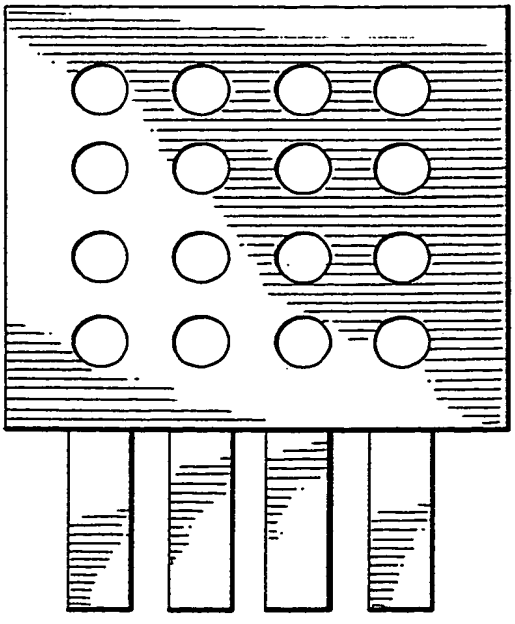


FIG.13E



FIG.13F

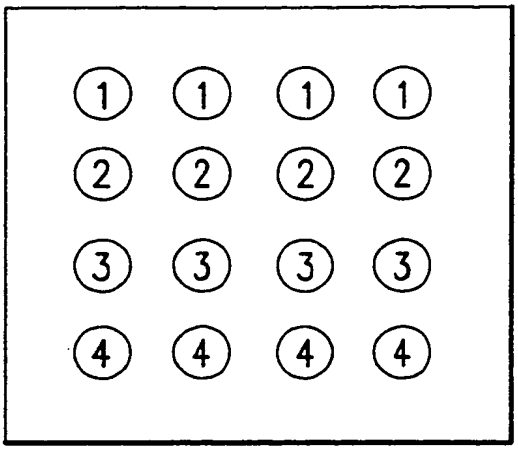



FIG.14A

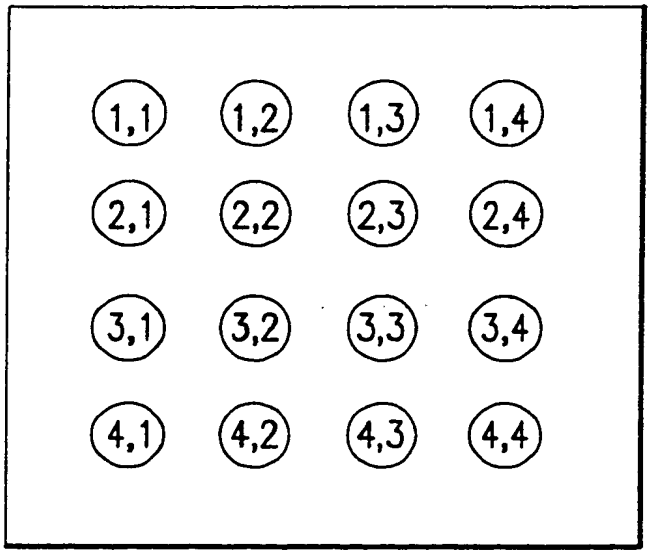



FIG.14B

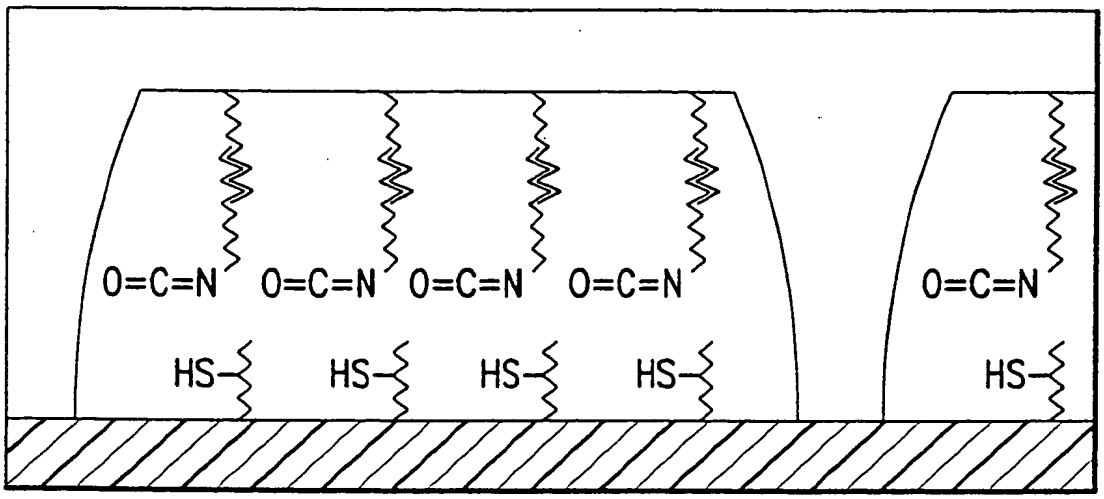



FIG.15A

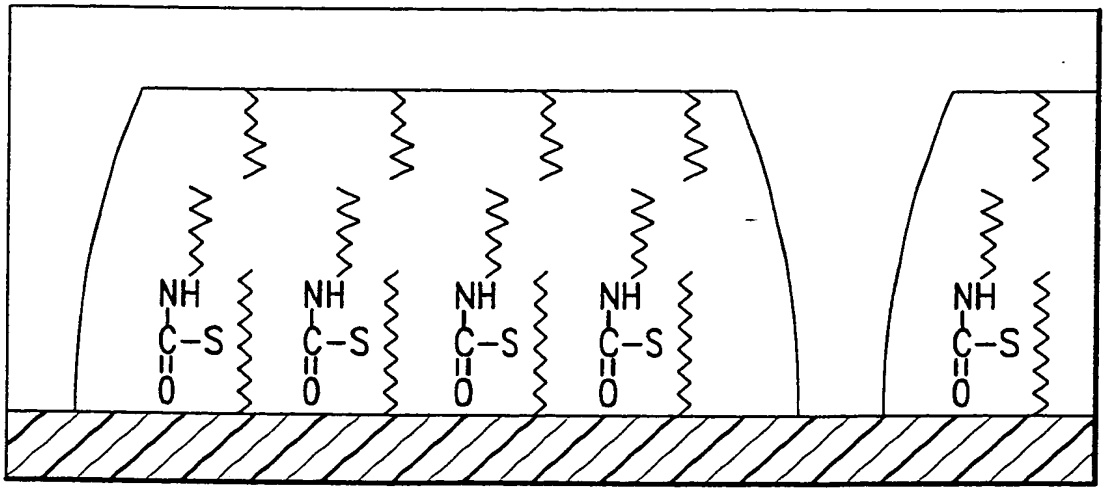



FIG.15B

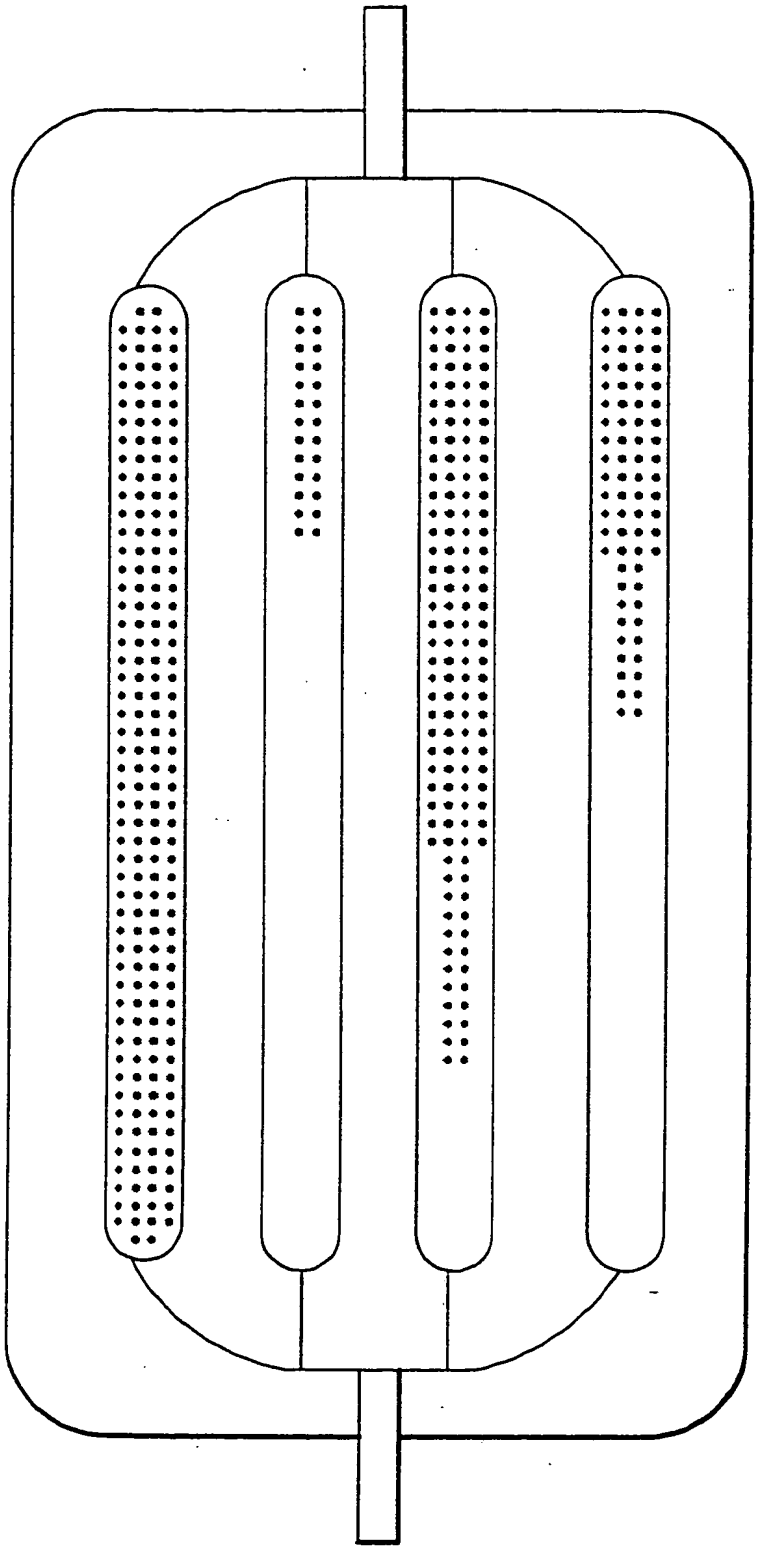


FIG.16

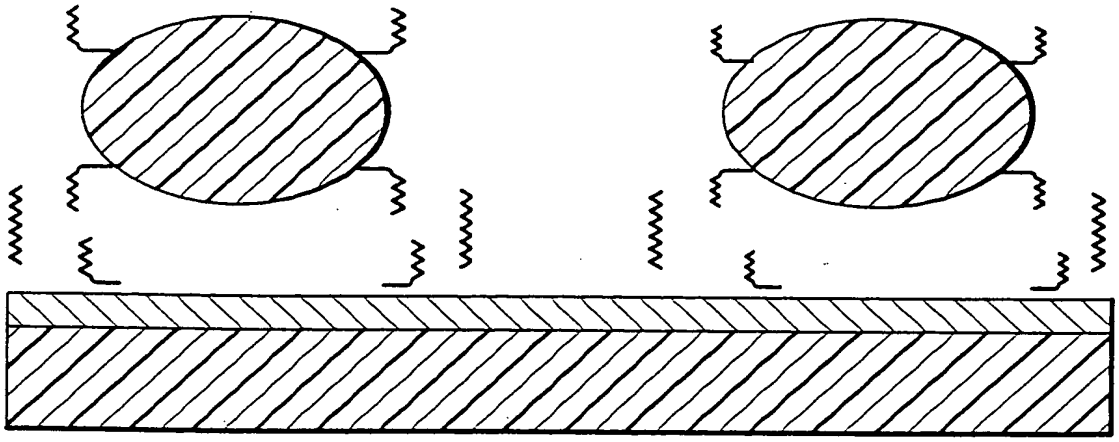


FIG.17A

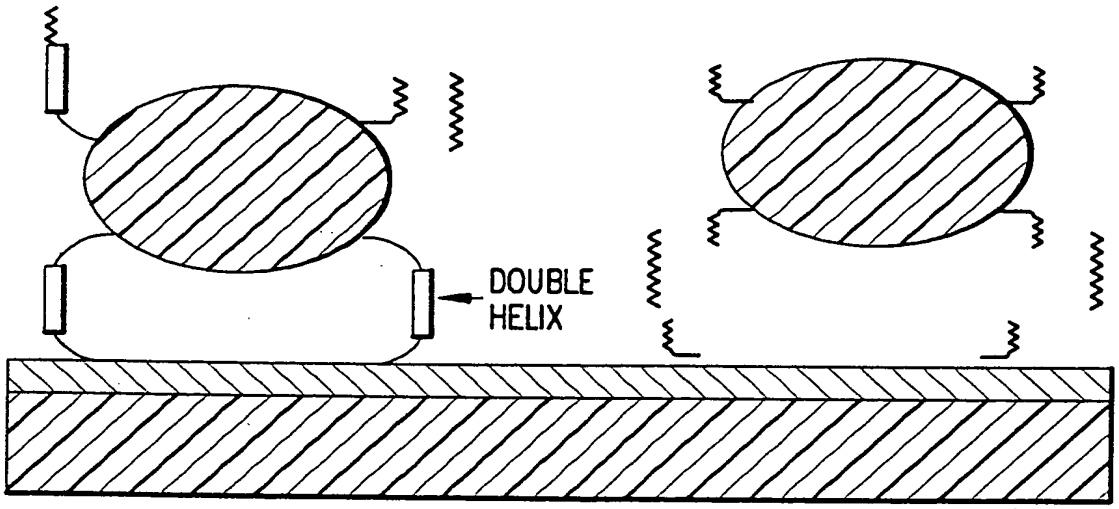



FIG.17B

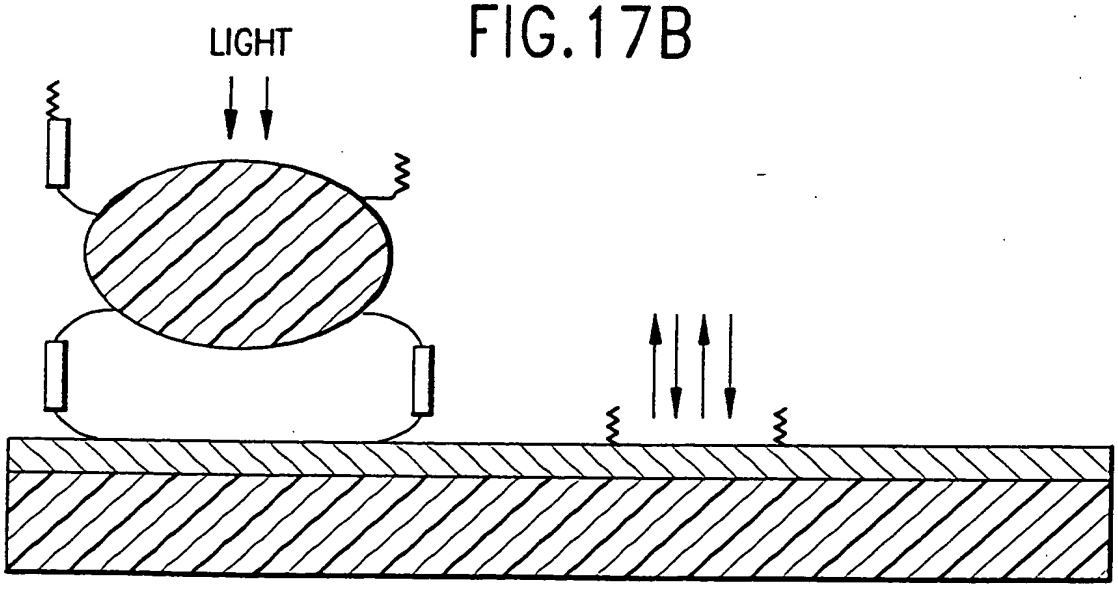



FIG.17C

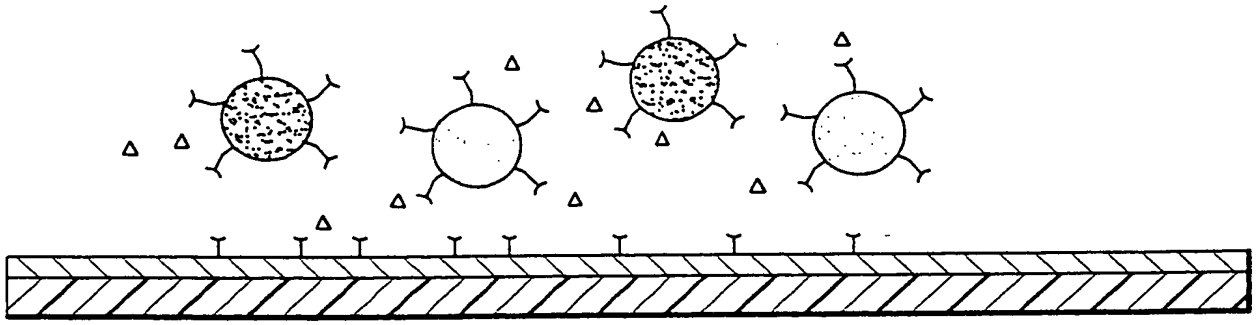


FIG.18A

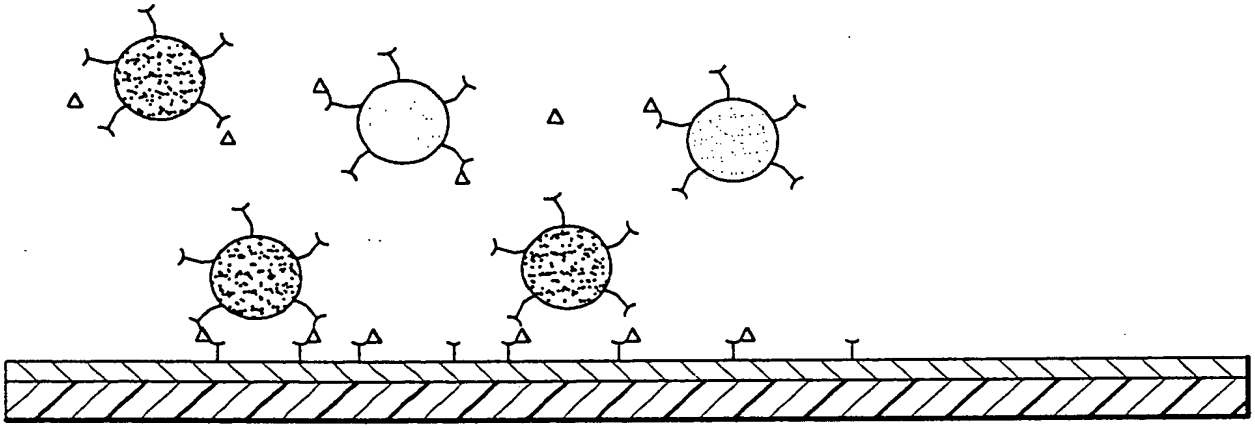


FIG.18B

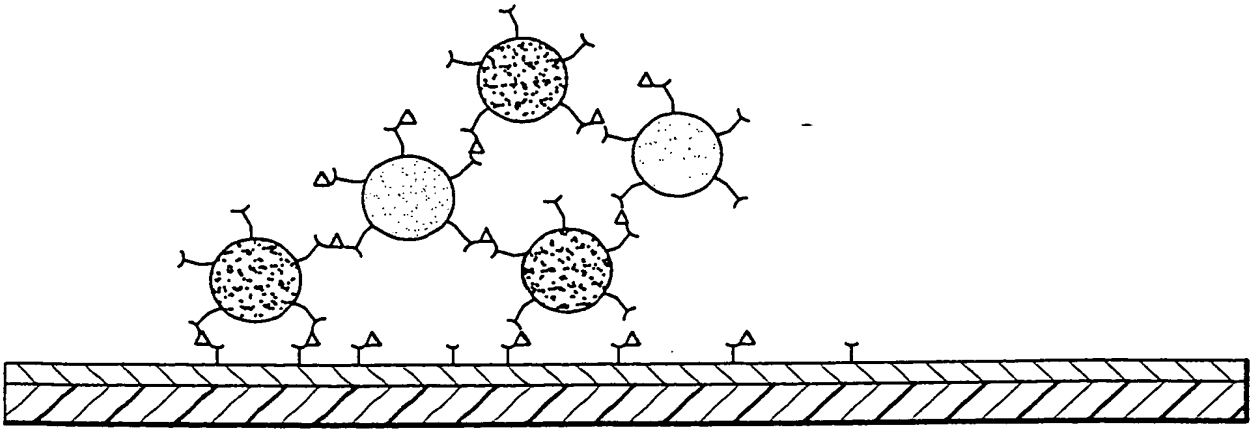


FIG.18C